

FIG. 1

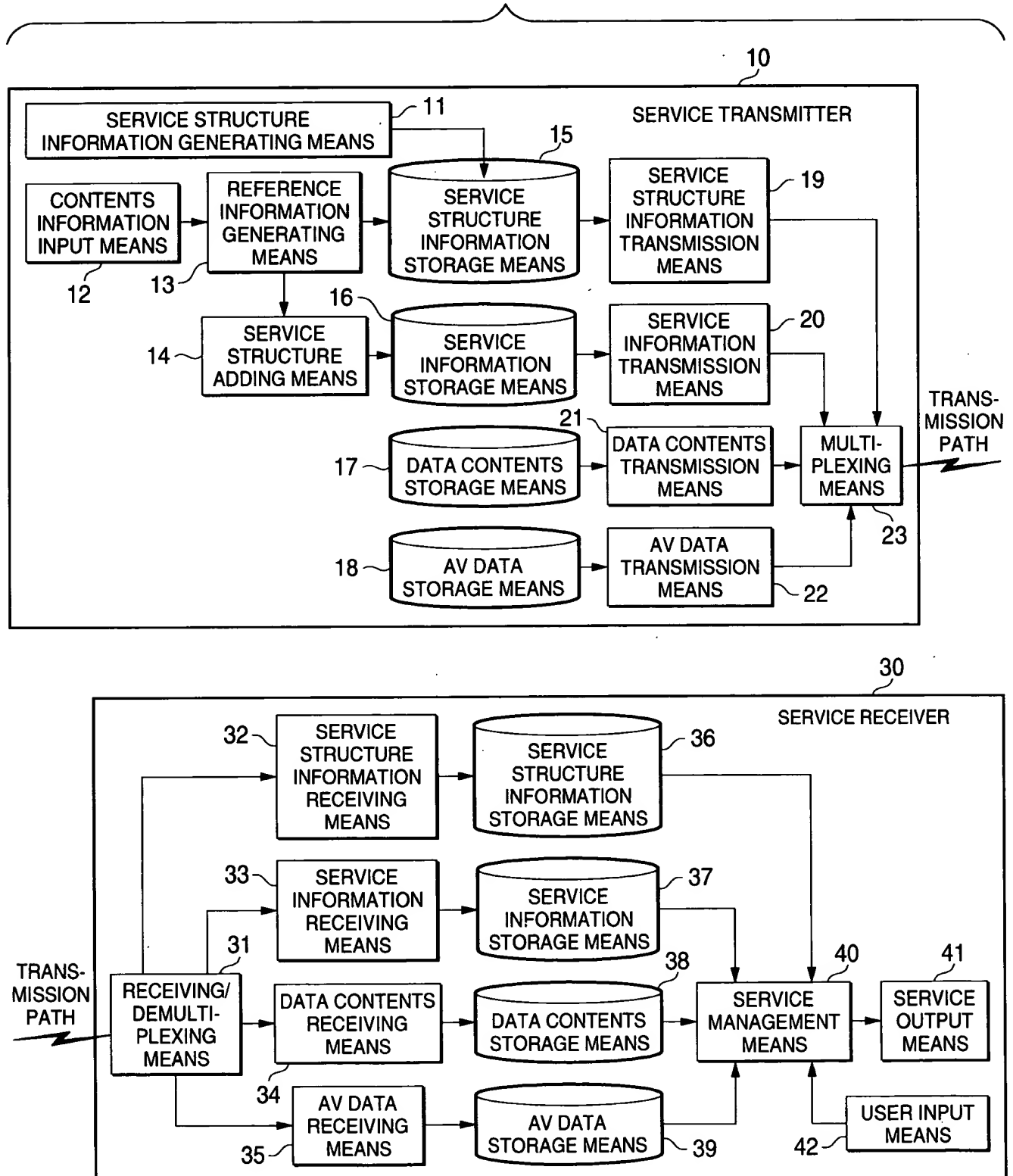


FIG. 2

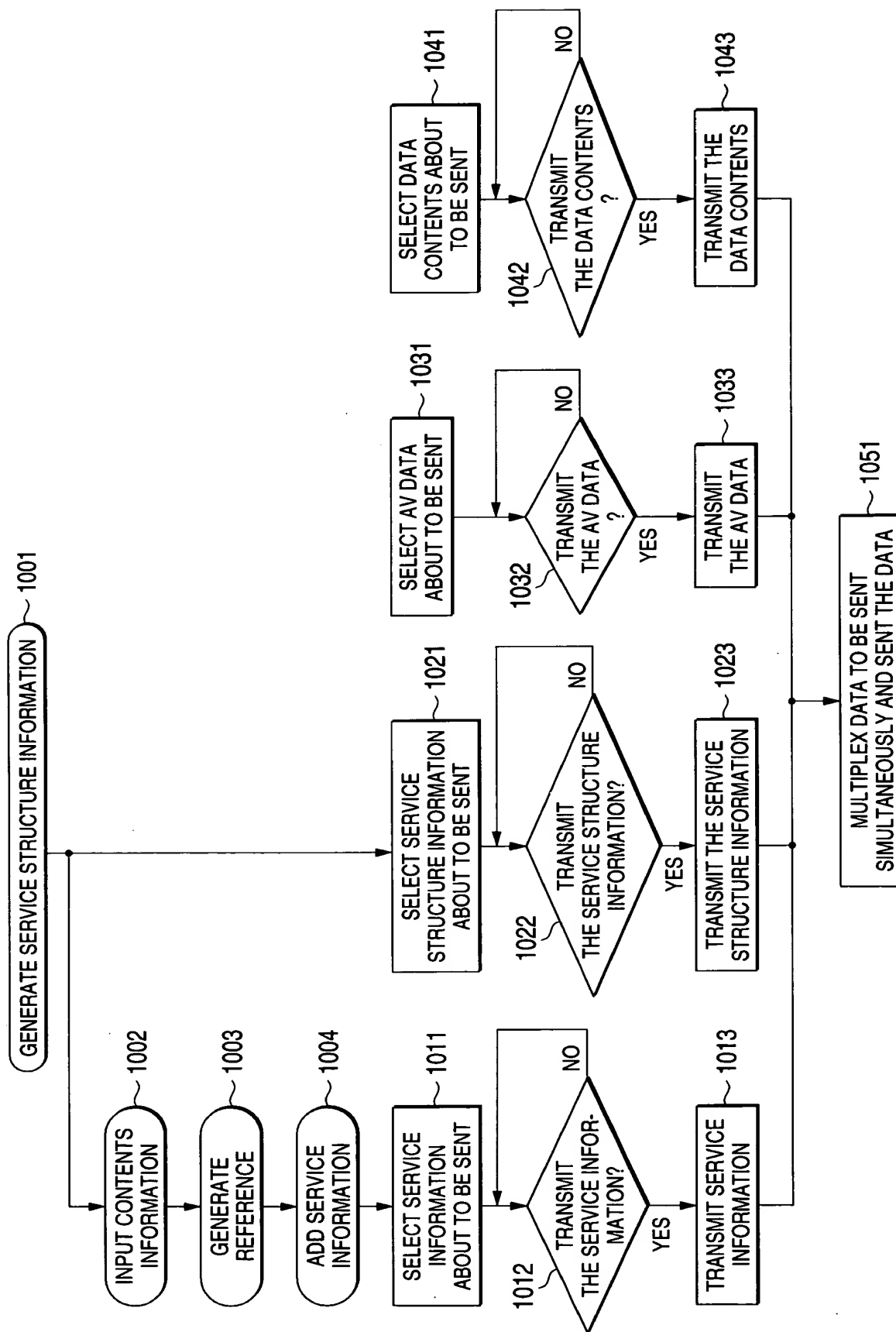


FIG. 3

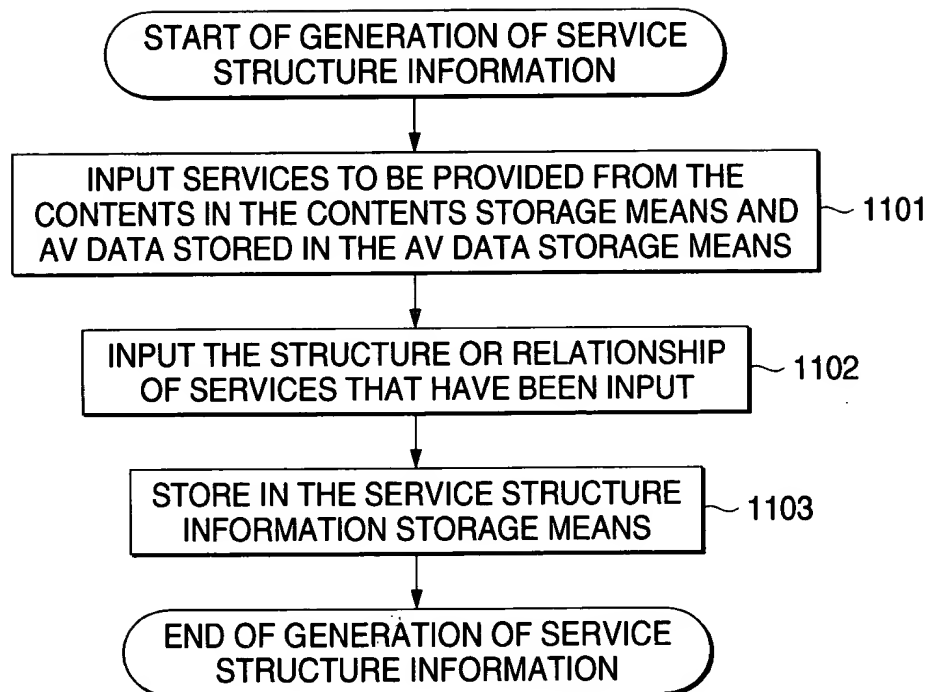
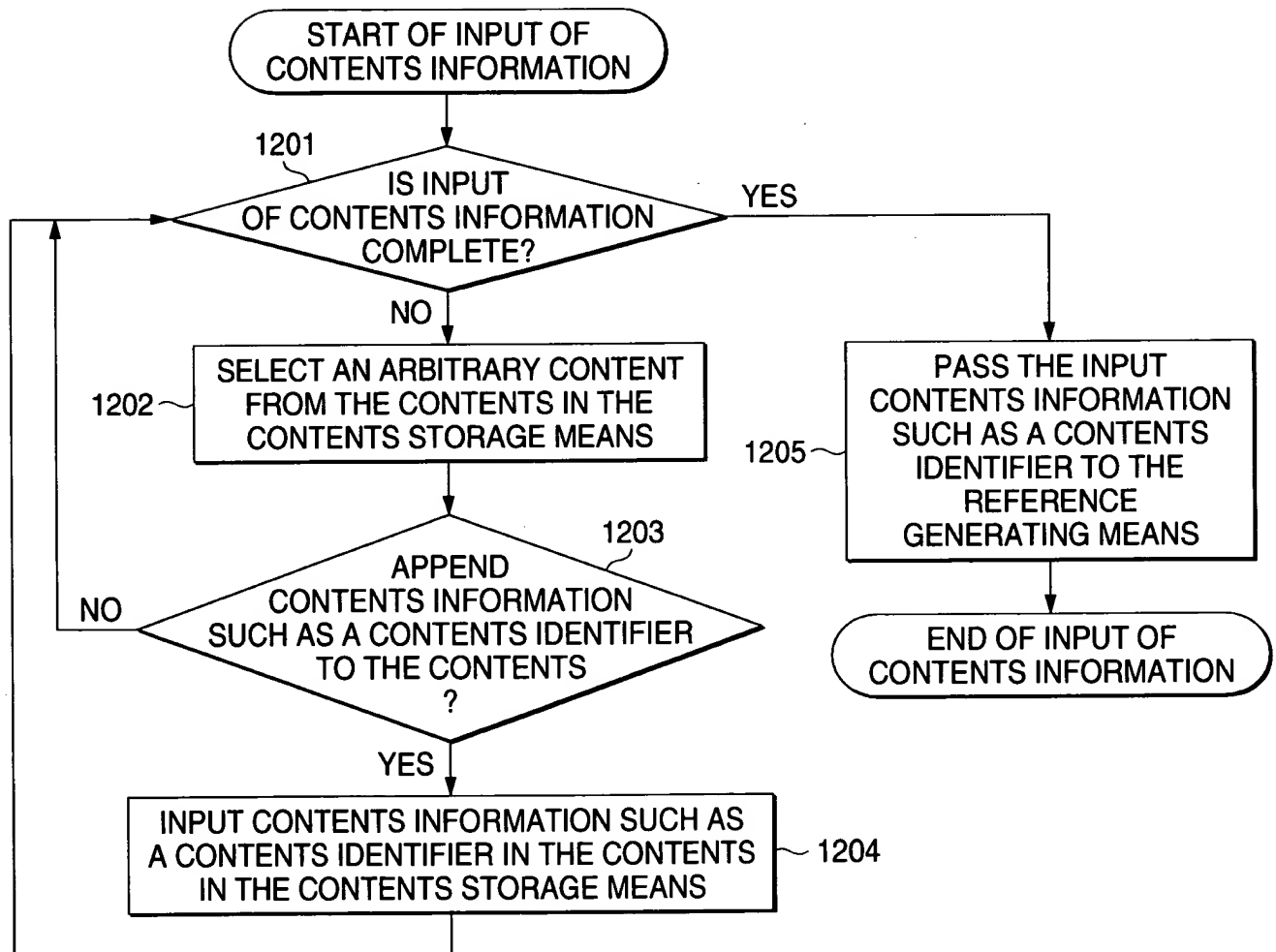
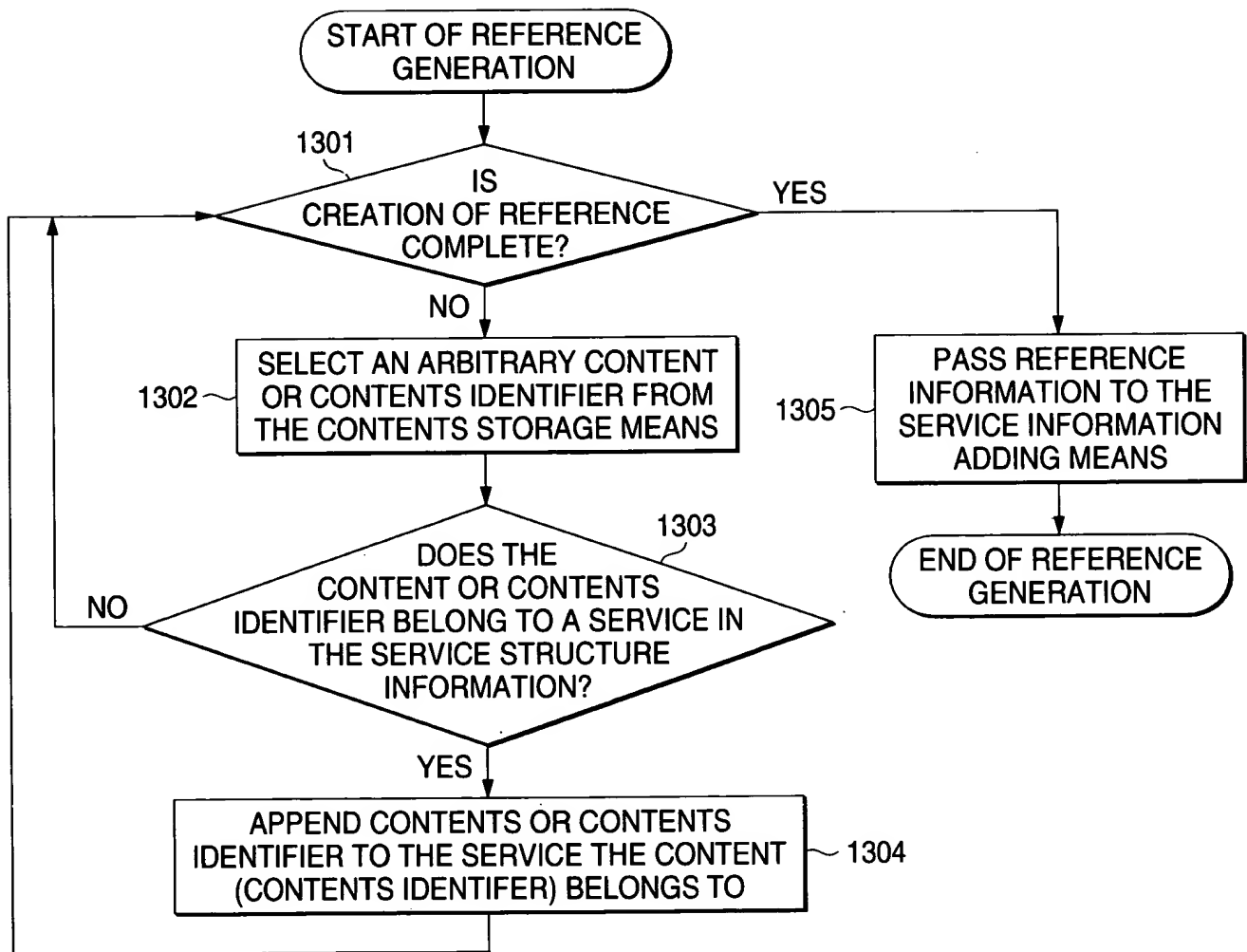


FIG. 4



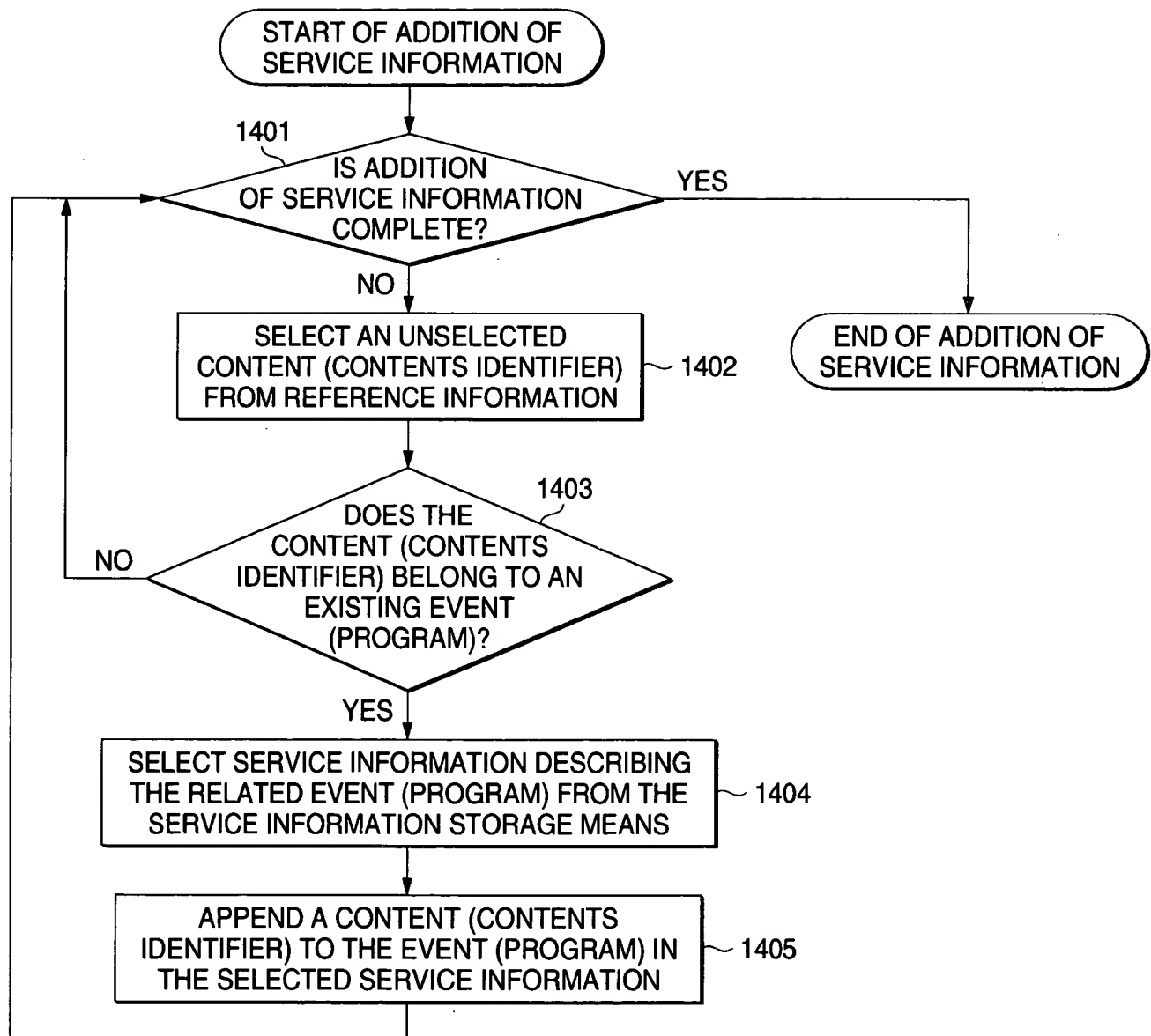
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FIG. 5



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FIG. 6



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FIG. 7

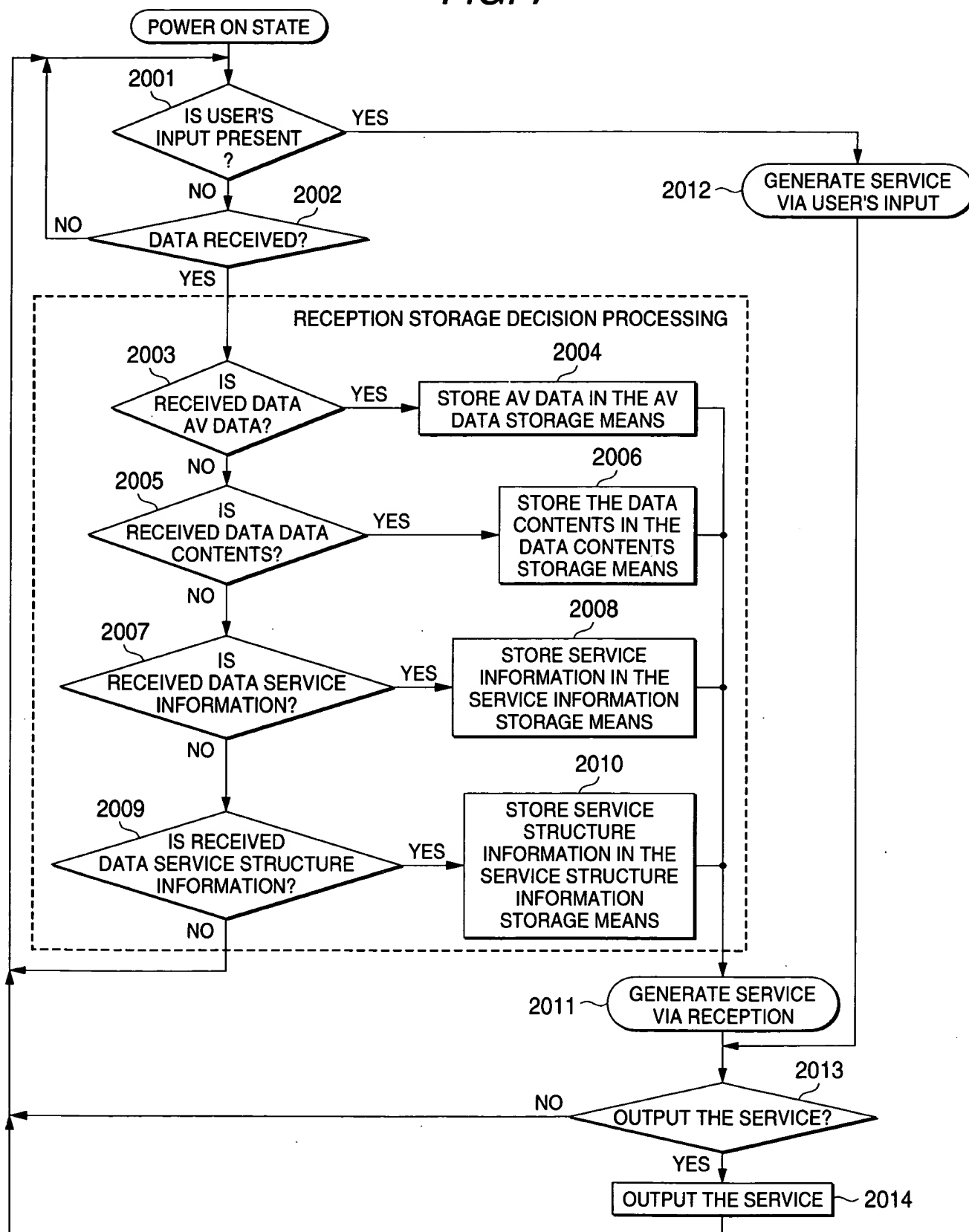
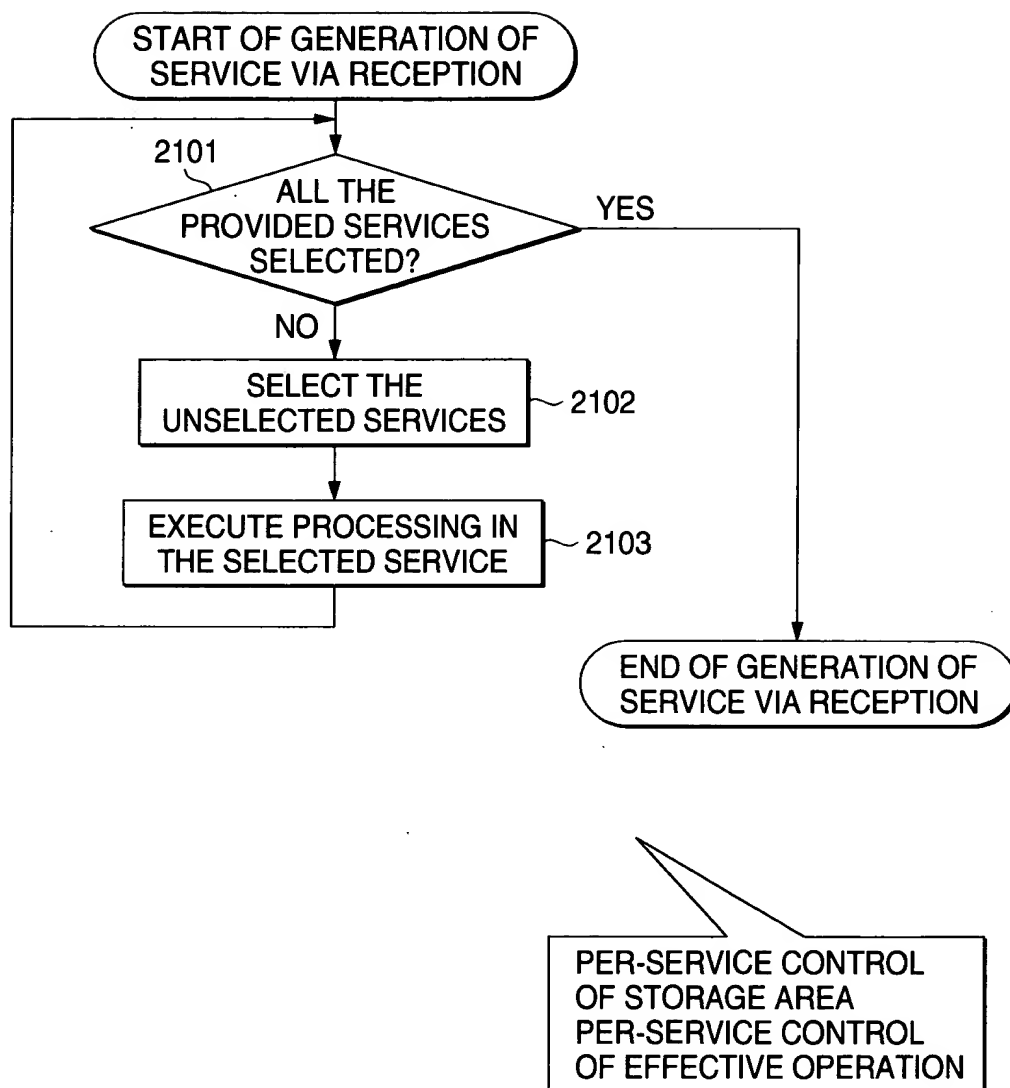
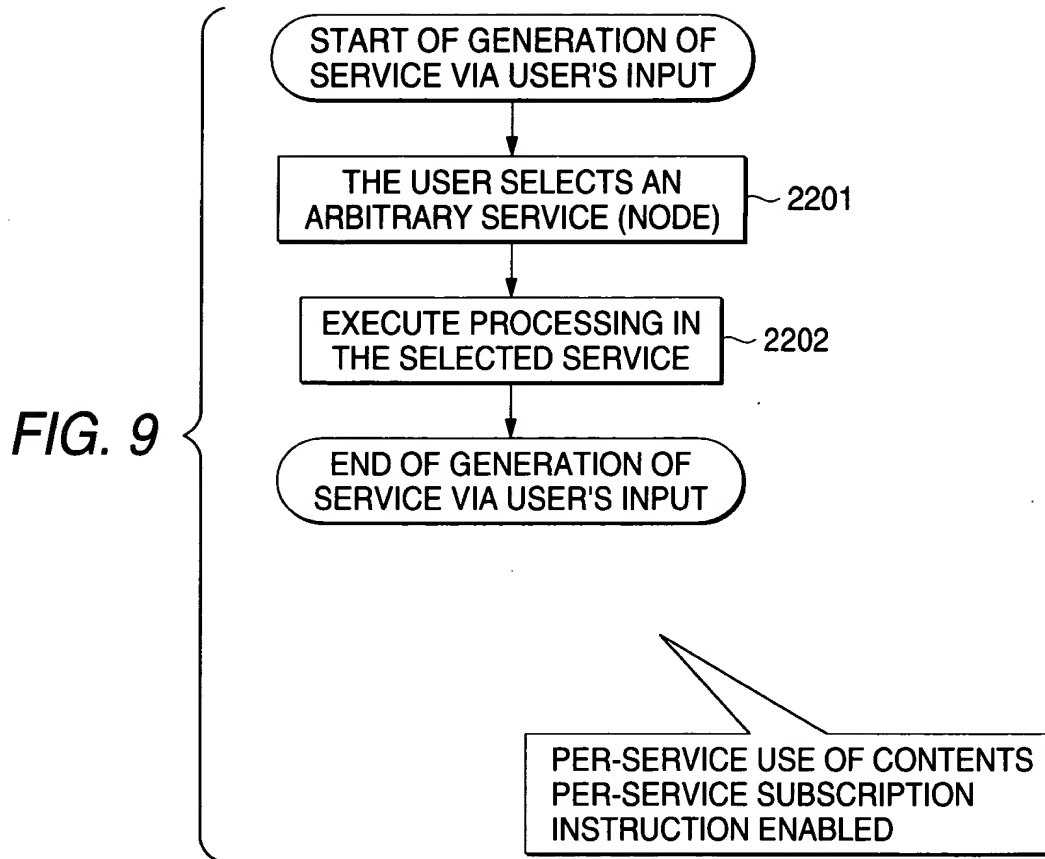


FIG. 8



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FIG. 10

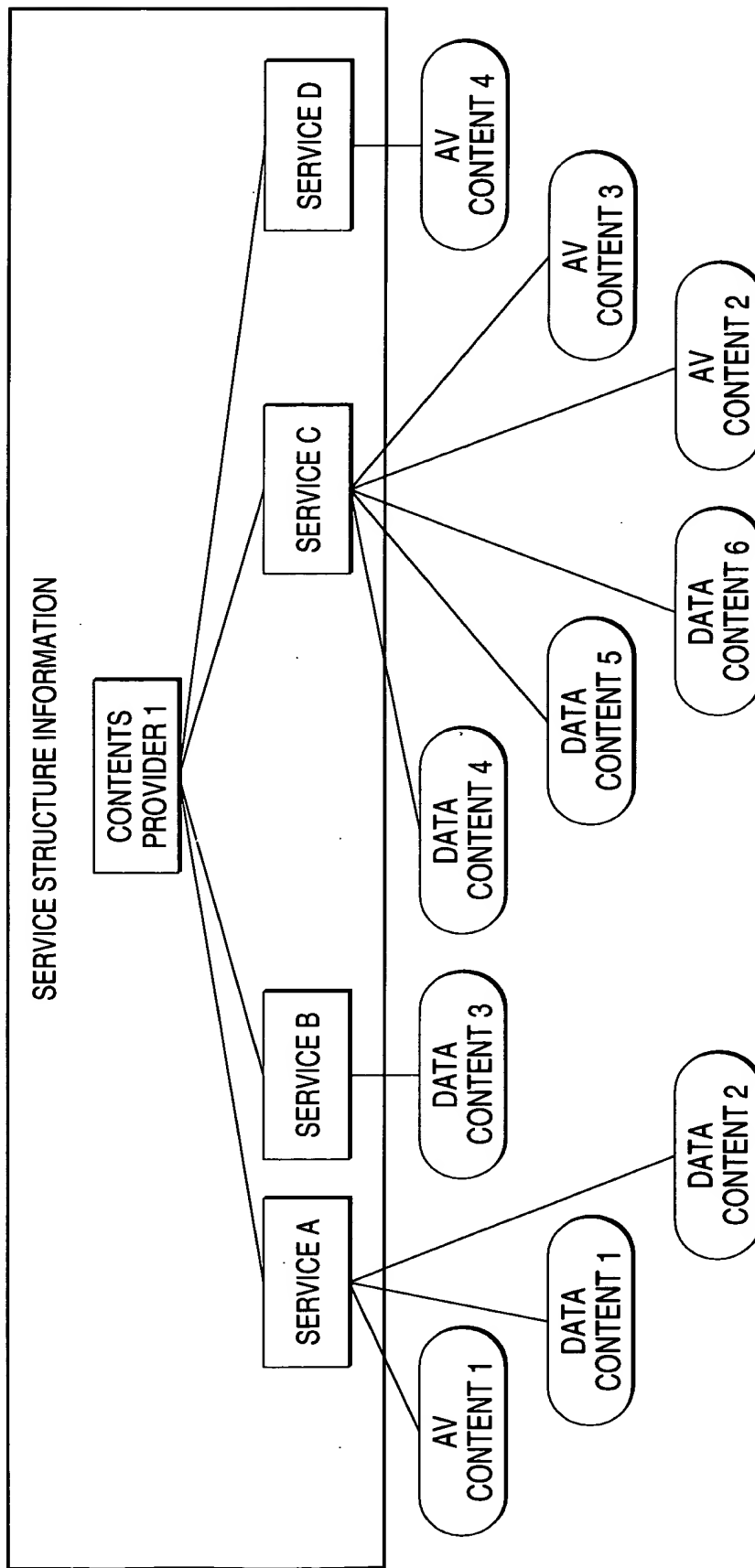


FIG. 11

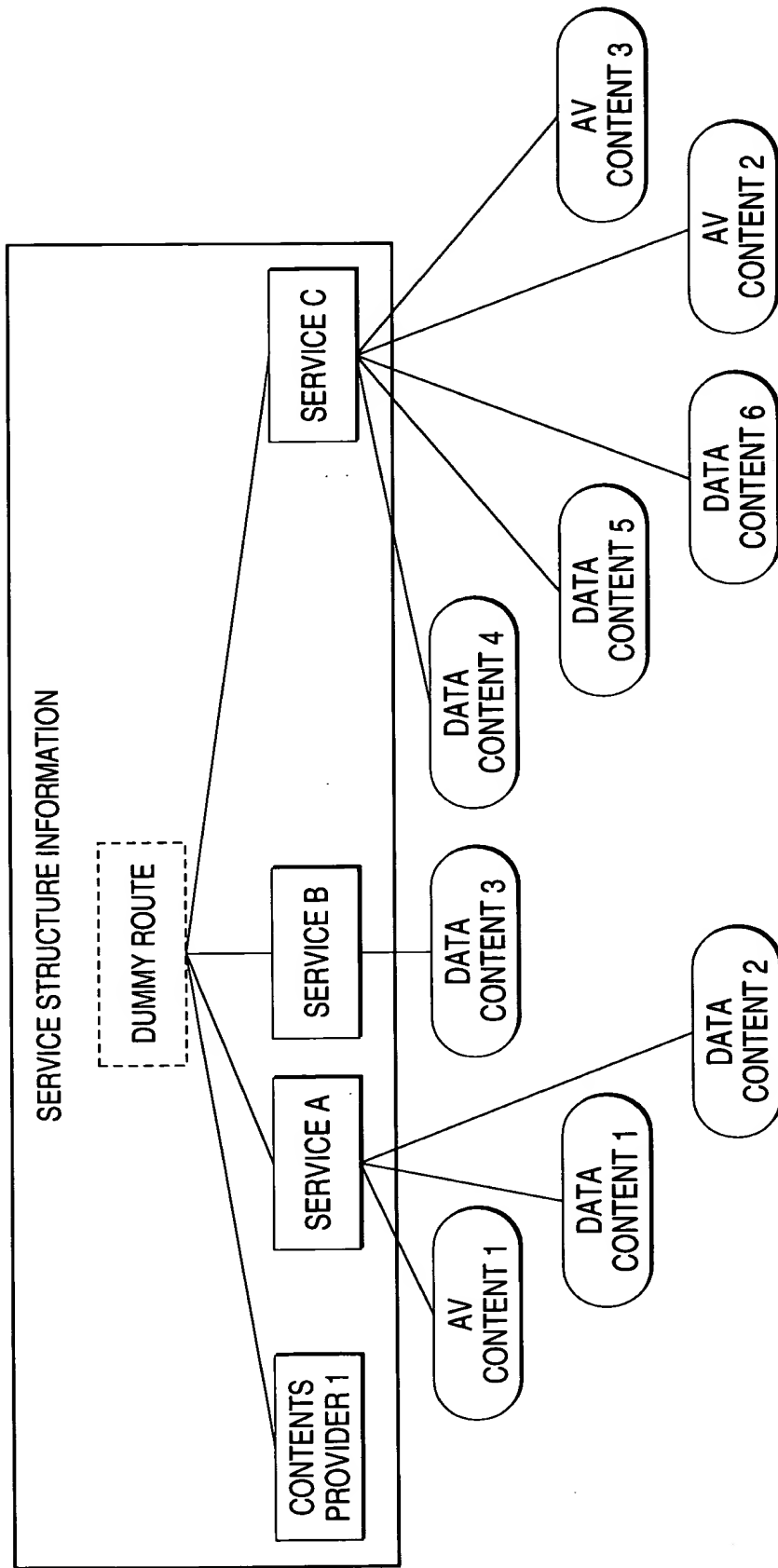


FIG. 12

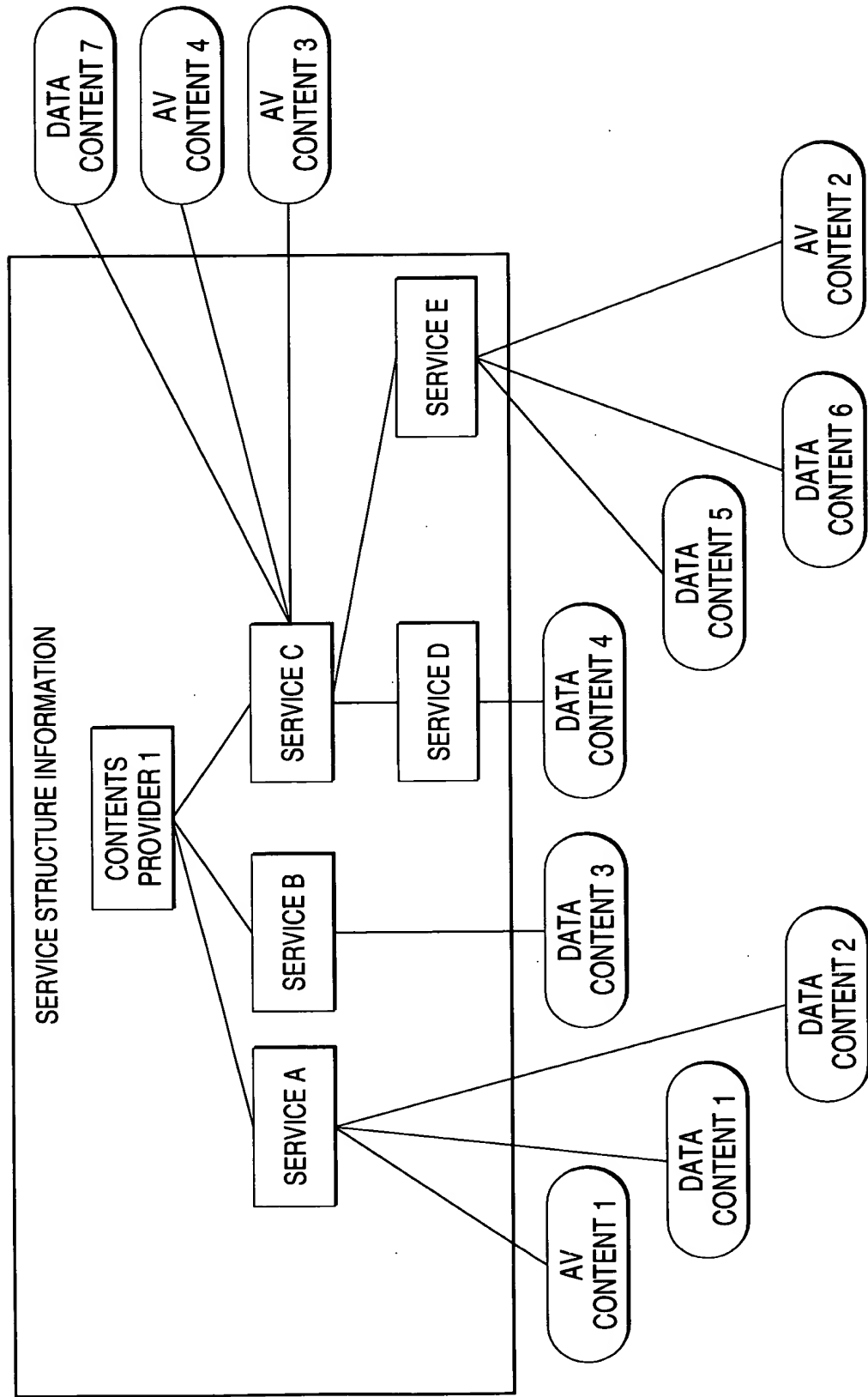


FIG. 13

HOME NODE	PARENT NODE
CONTENTS PROVIDER 1	
SERVICE A	CONTENTS PROVIDER 1
SERVICE B	CONTENTS PROVIDER 1
SERVICE C	CONTENTS PROVIDER 1
SERVICE D	CONTENTS PROVIDER 1

FIG. 14

HOME NODE		REFERENCE DESTINATION
DATA CONTENT 1		SERVICE A
DATA CONTENT 2		SERVICE A
DATA CONTENT 3		SERVICE B
DATA CONTENT 4		SERVICE C
DATA CONTENT 5		SERVICE C
DATA CONTENT 6		SERVICE C
AV CONTENT 1		SERVICE A
AV CONTENT 2		SERVICE C
AV CONTENT 3		SERVICE C
AV CONTENT 4		SERVICE D

FIG. 15

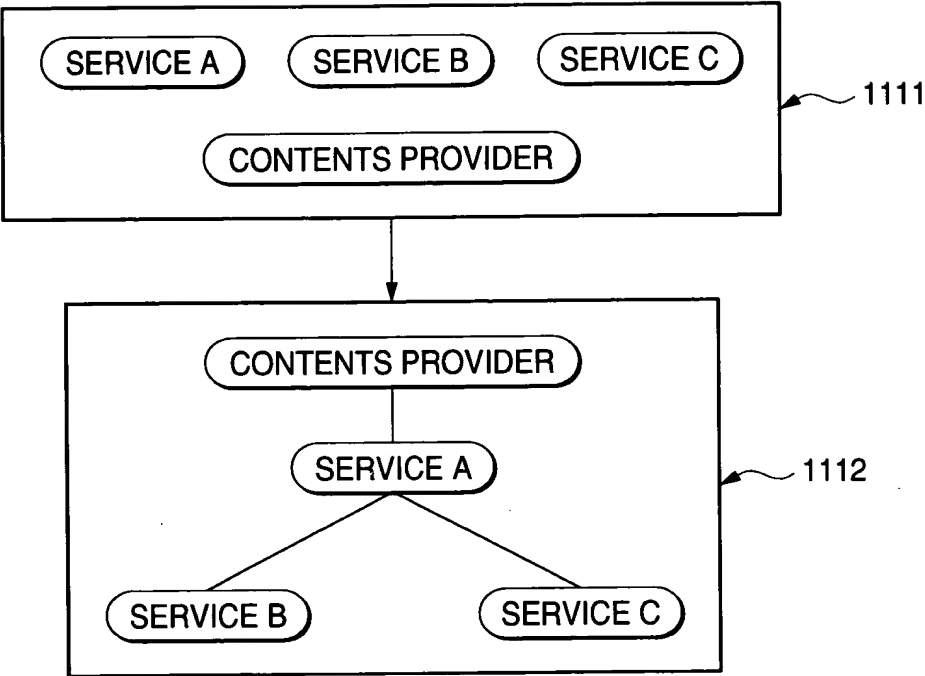


FIG. 16

HOME NODE	PARENT NODE
CONTENTS PROVIDER	
SERVICE A	CONTENTS PROVIDER
SERVICE B	SERVICE A
SERVICE C	SERVICE A

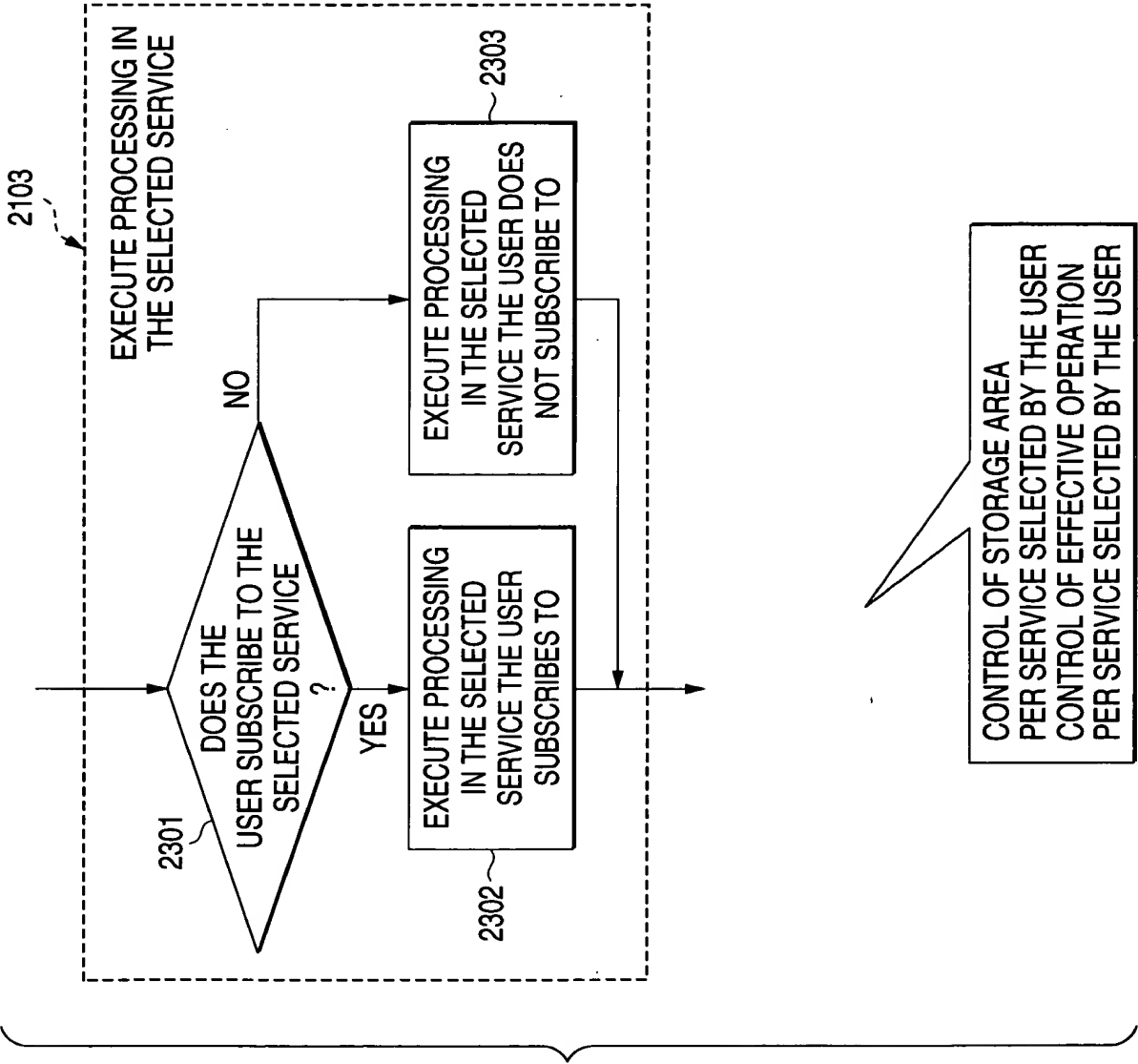
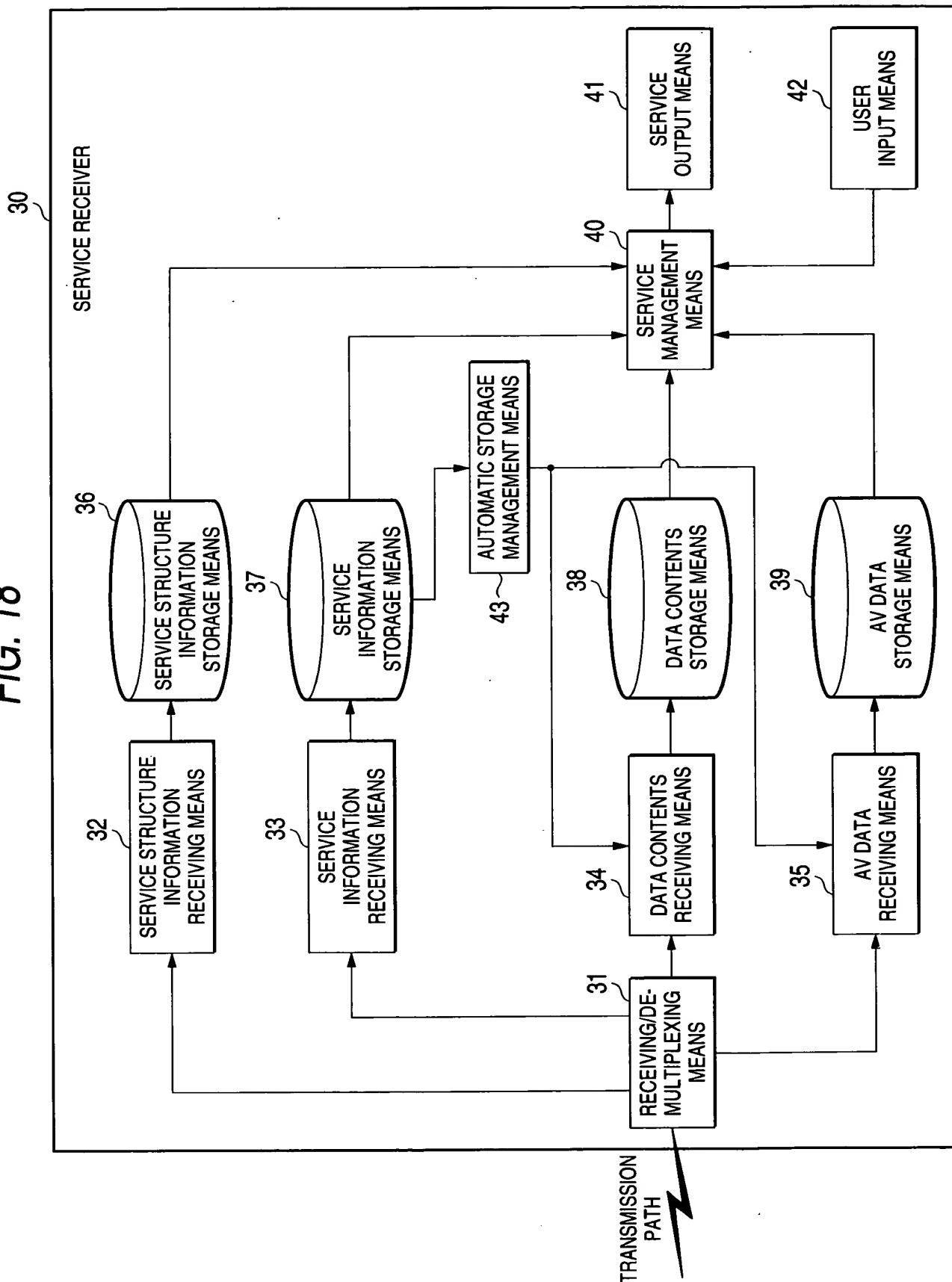


FIG. 17

FIG. 18



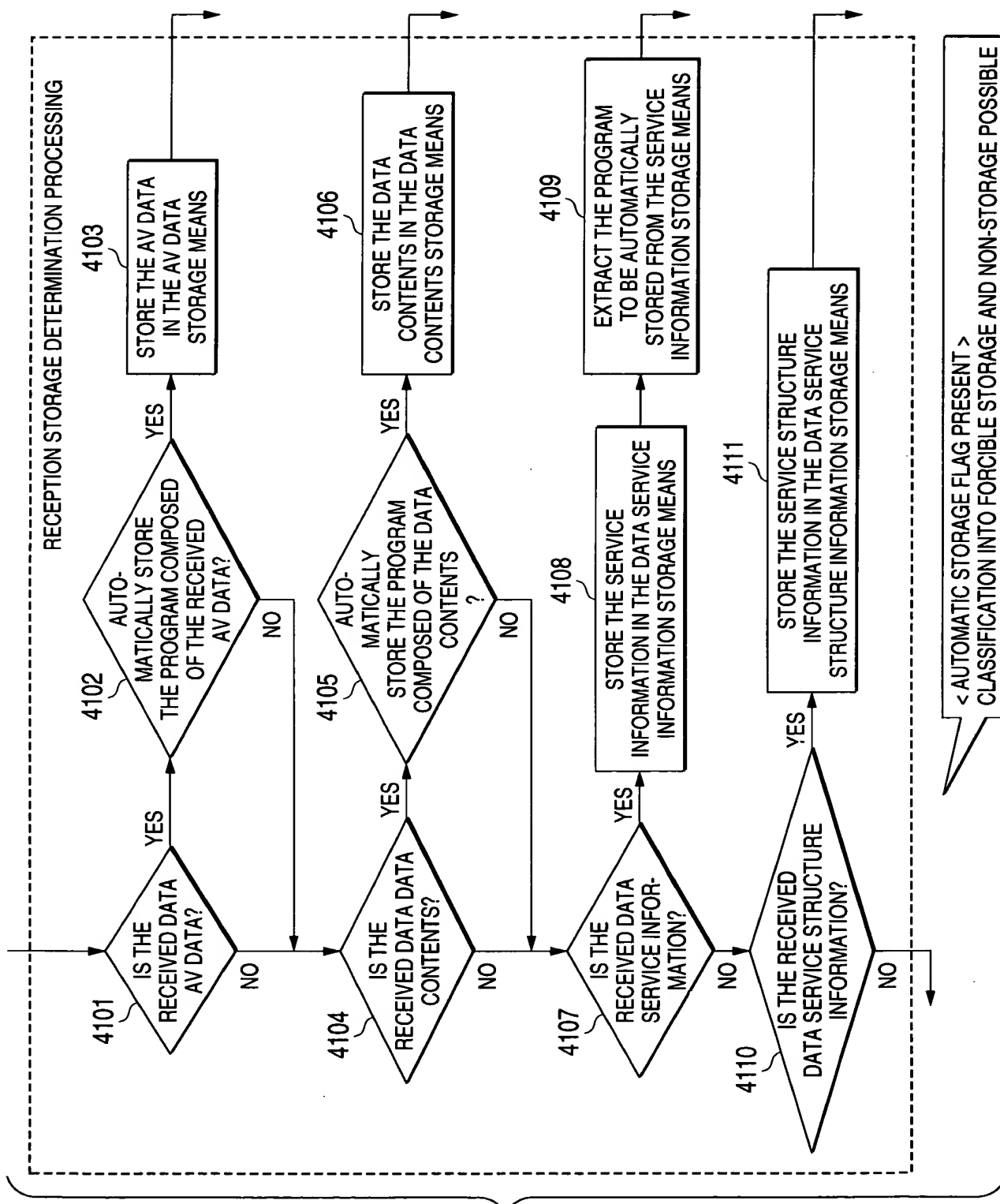


FIG. 19

FIG. 20

HOME NODE		REFERENCE DESTINATION	AUTOMATIC STORAGE FLAG
DATA CONTENT 1		SERVICE A	<input type="radio"/>
DATA CONTENT 2		SERVICE A	
DATA CONTENT 3		SERVICE B	
DATA CONTENT 4		SERVICE C	<input type="radio"/>
DATA CONTENT 5		SERVICE C	
DATA CONTENT 6		SERVICE C	
AV CONTENT 1		SERVICE A	
AV CONTENT 2		SERVICE C	<input type="radio"/>
AV CONTENT 3		SERVICE C	
AV CONTENT 4		SERVICE D	<input type="radio"/>

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FIG. 21

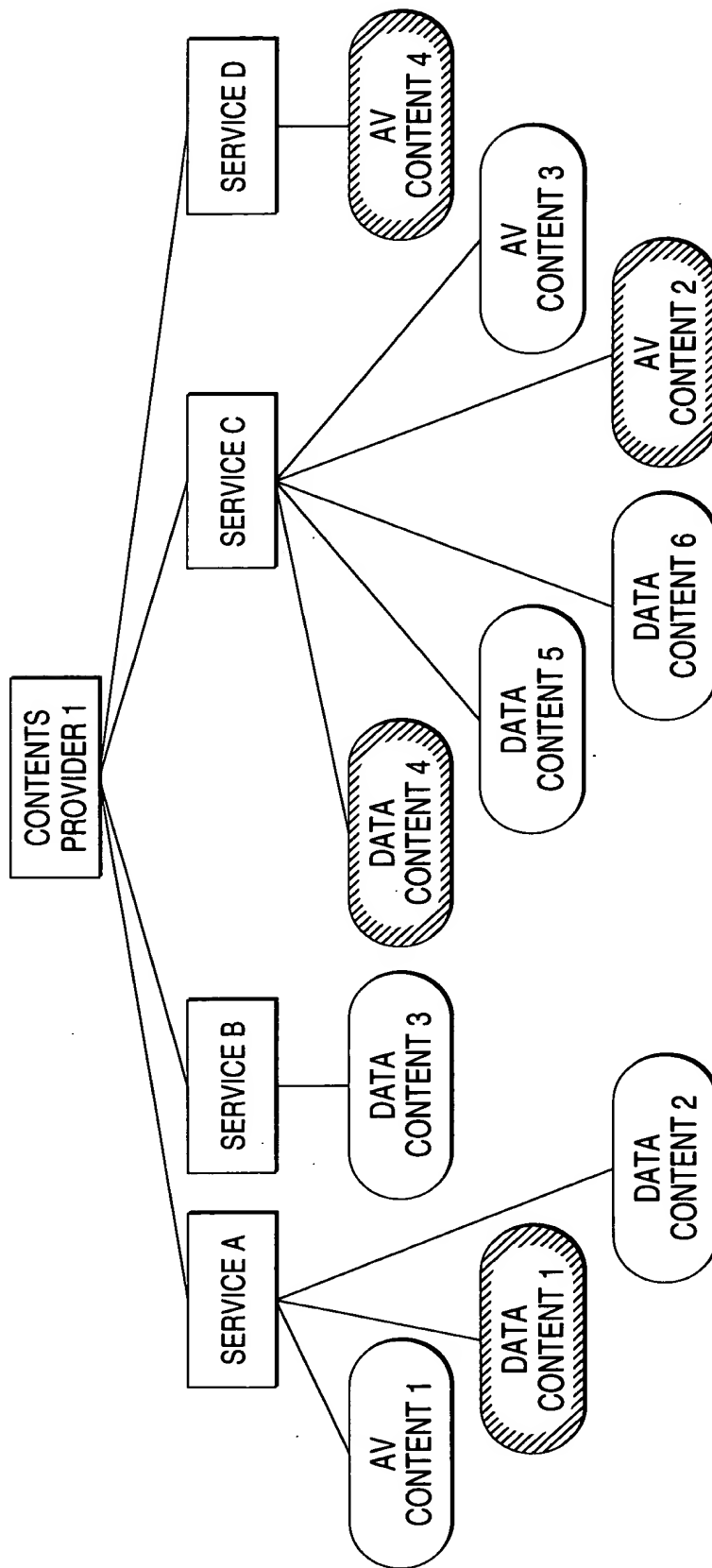


FIG. 22

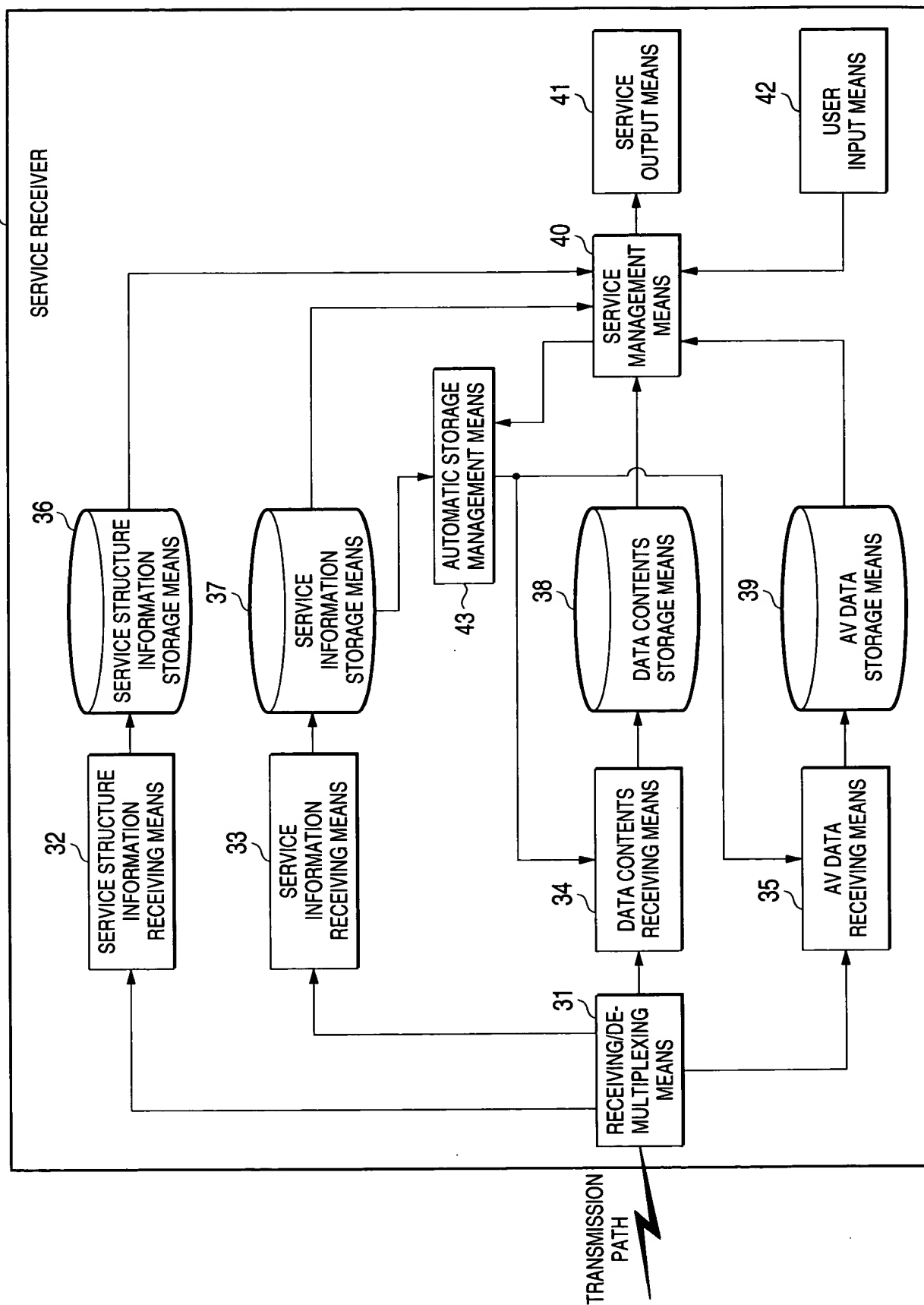


FIG. 23

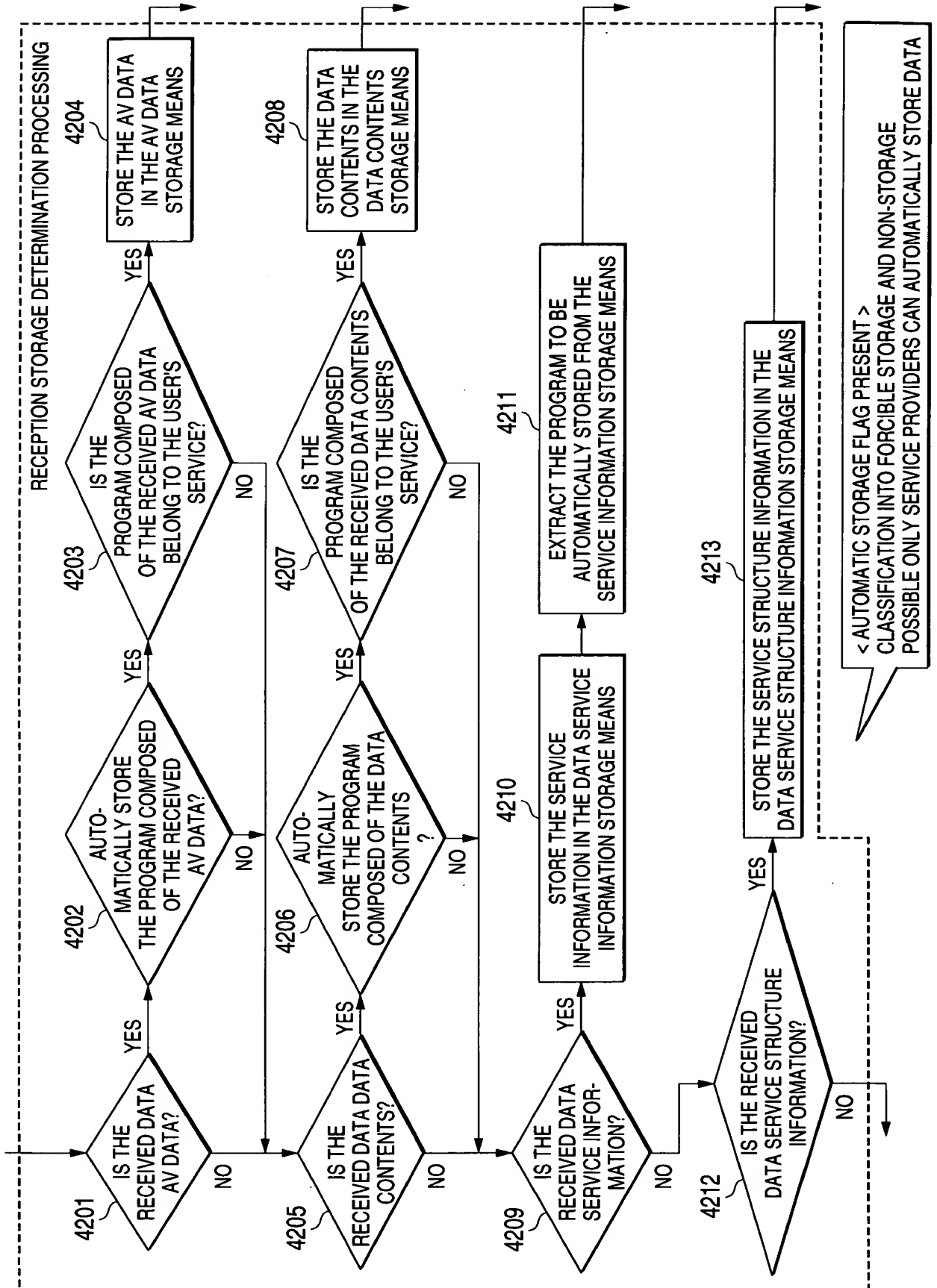


FIG. 24

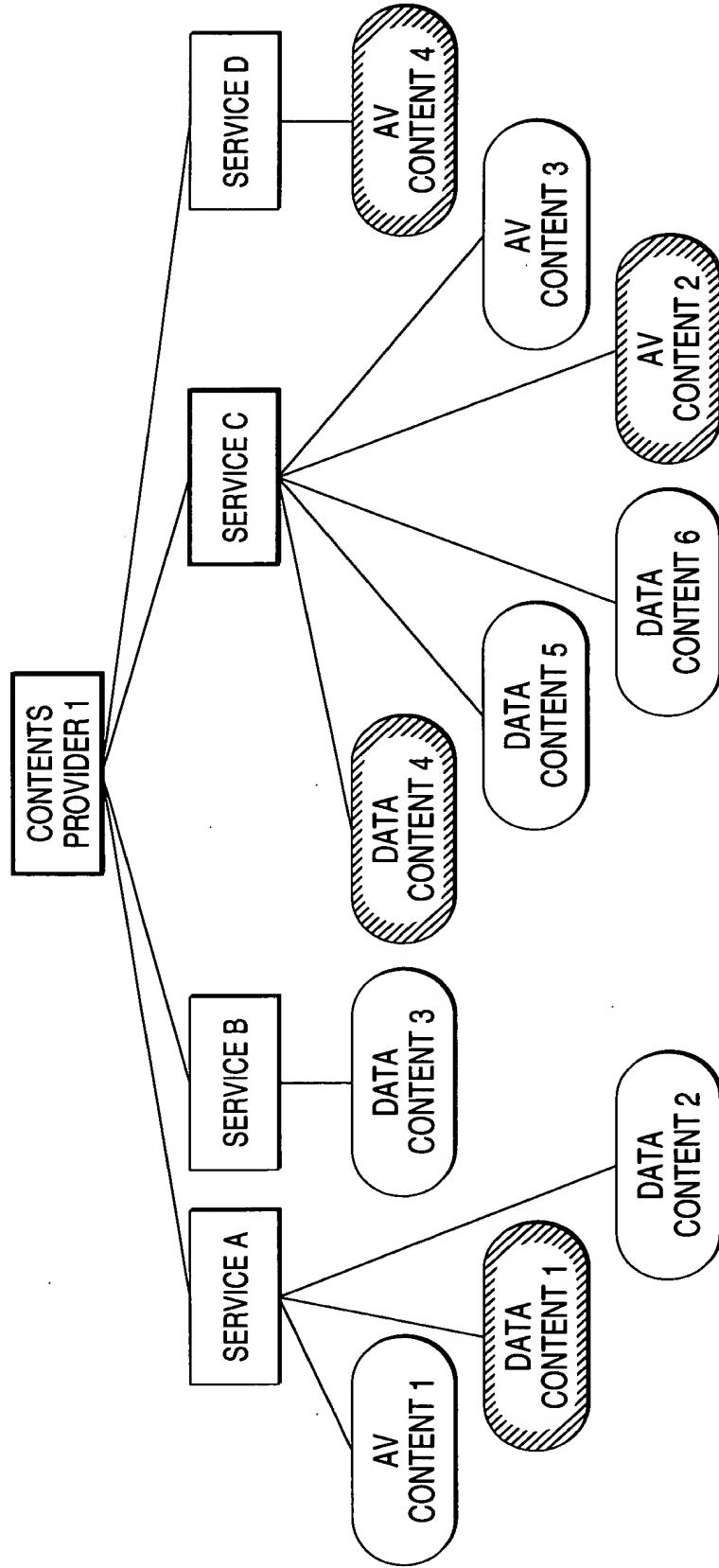


FIG. 25

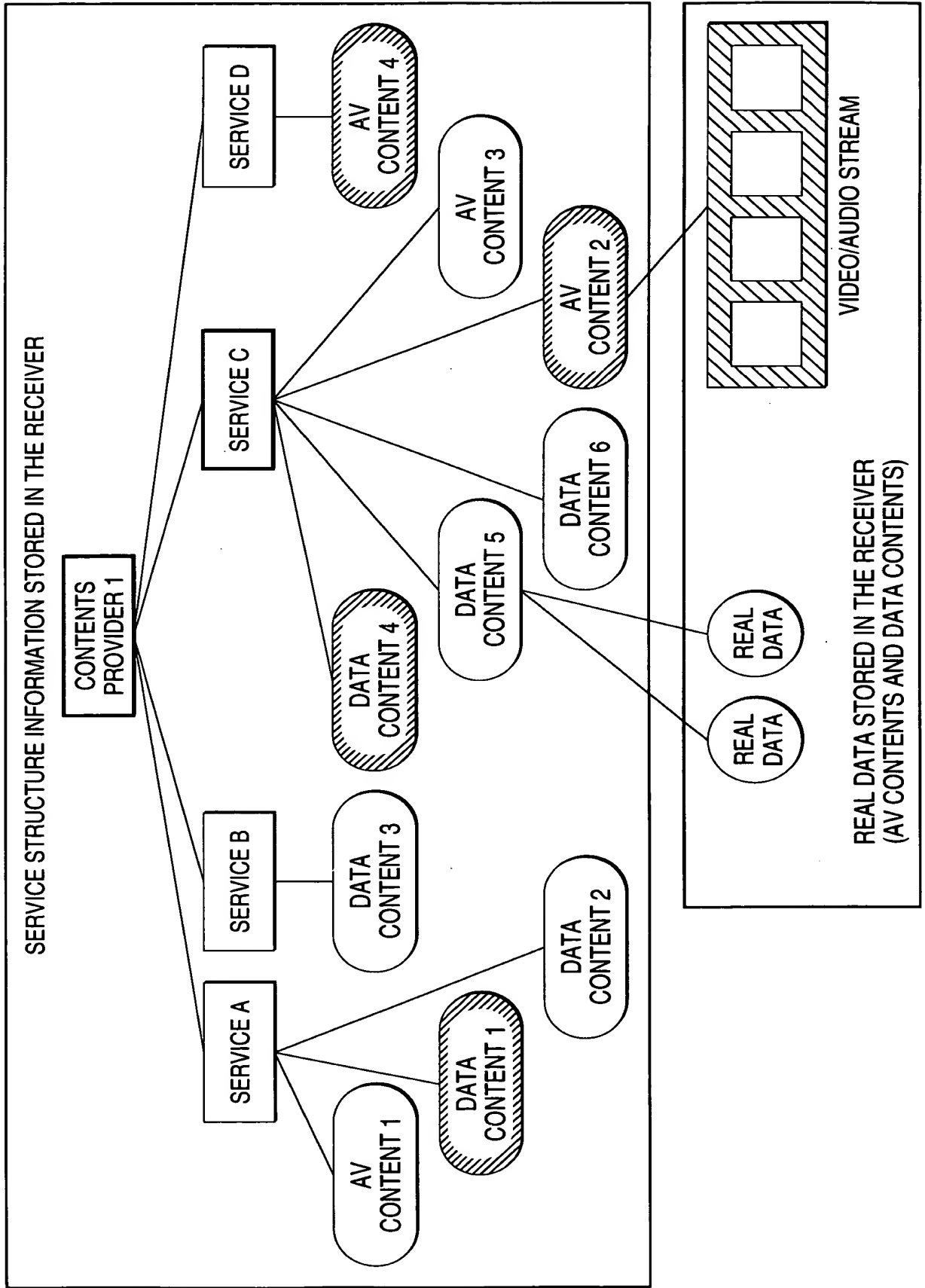
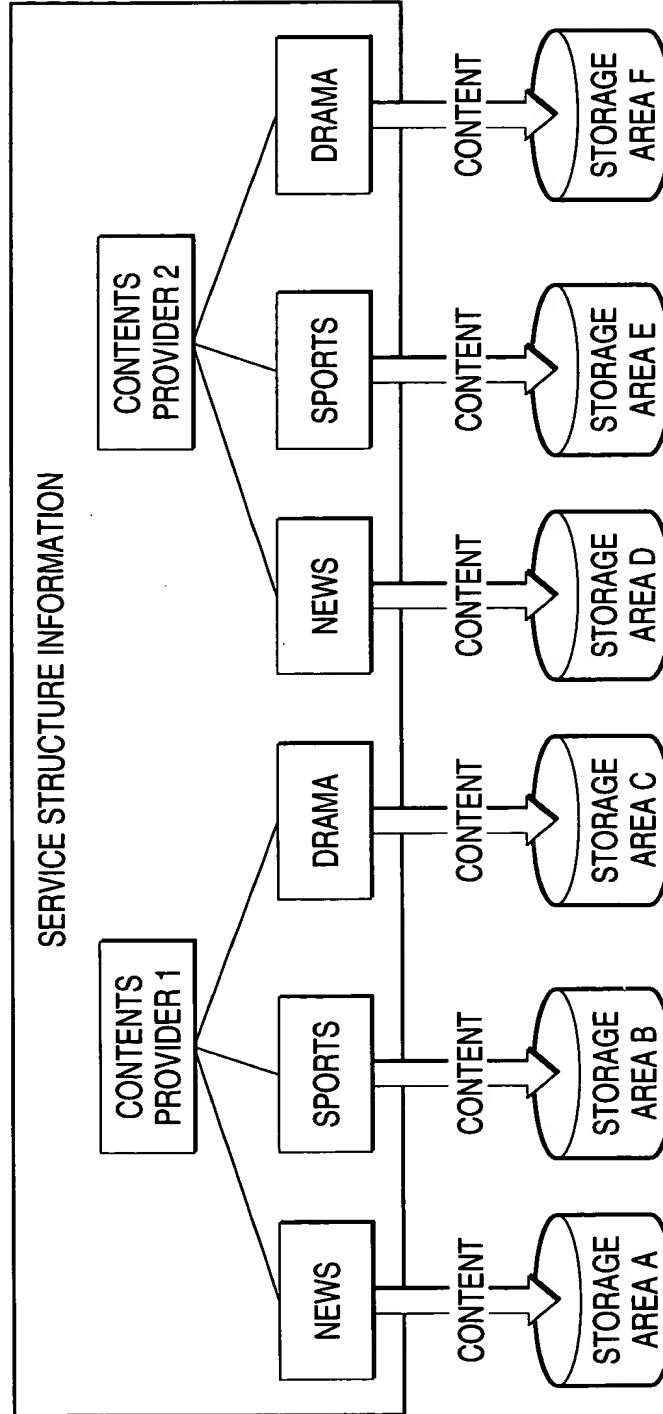
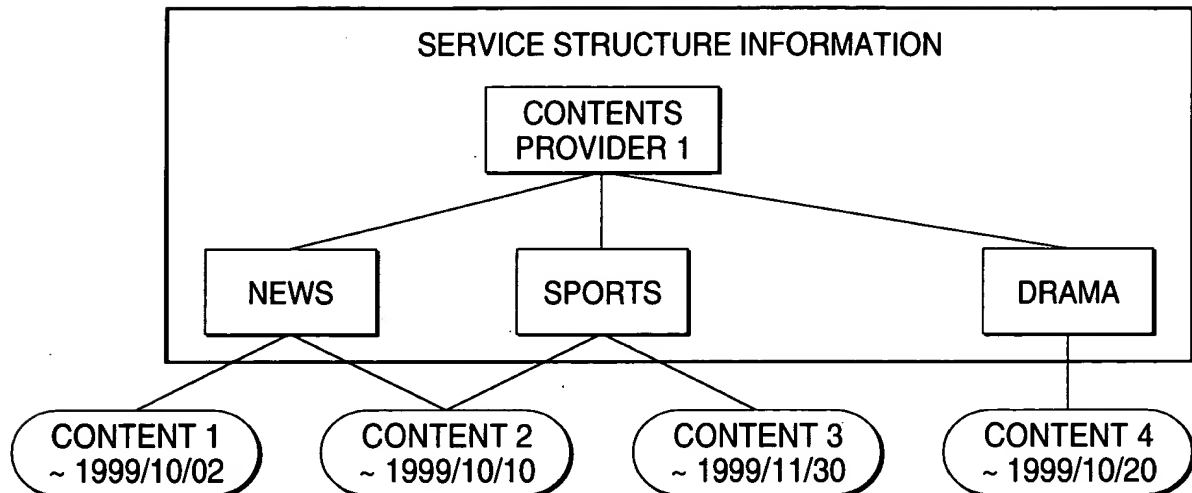


FIG. 26



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FIG. 27



DEPENDS ON THE NEAREST VALIDITY TERM OF CONTENTS:
NEWS: VALID UNTIL 1999/10/02
SPORTS: VALID UNTIL 1999/10/10
DRAMA: VALID UNTIL 1999/10/20

FIG. 28

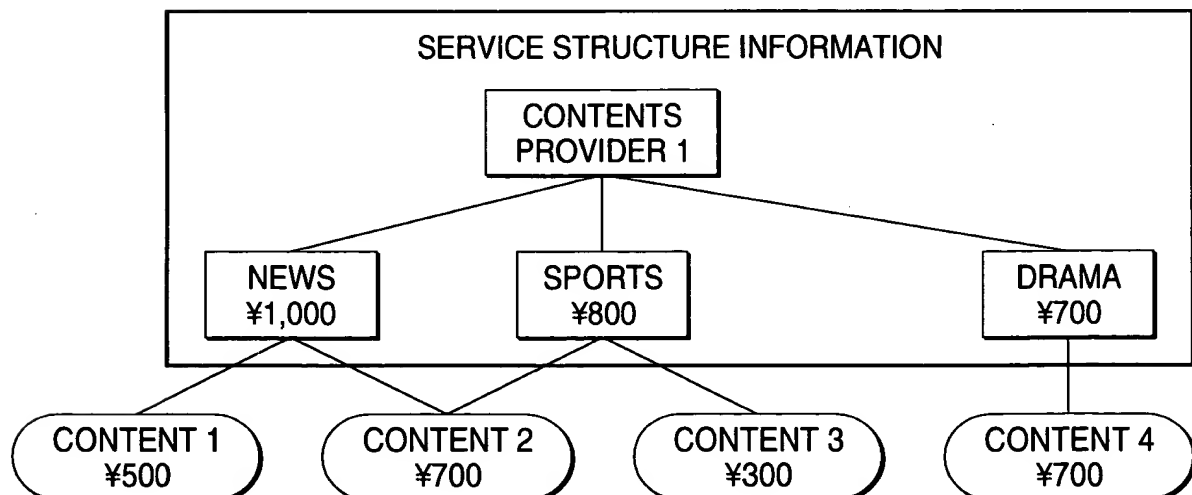
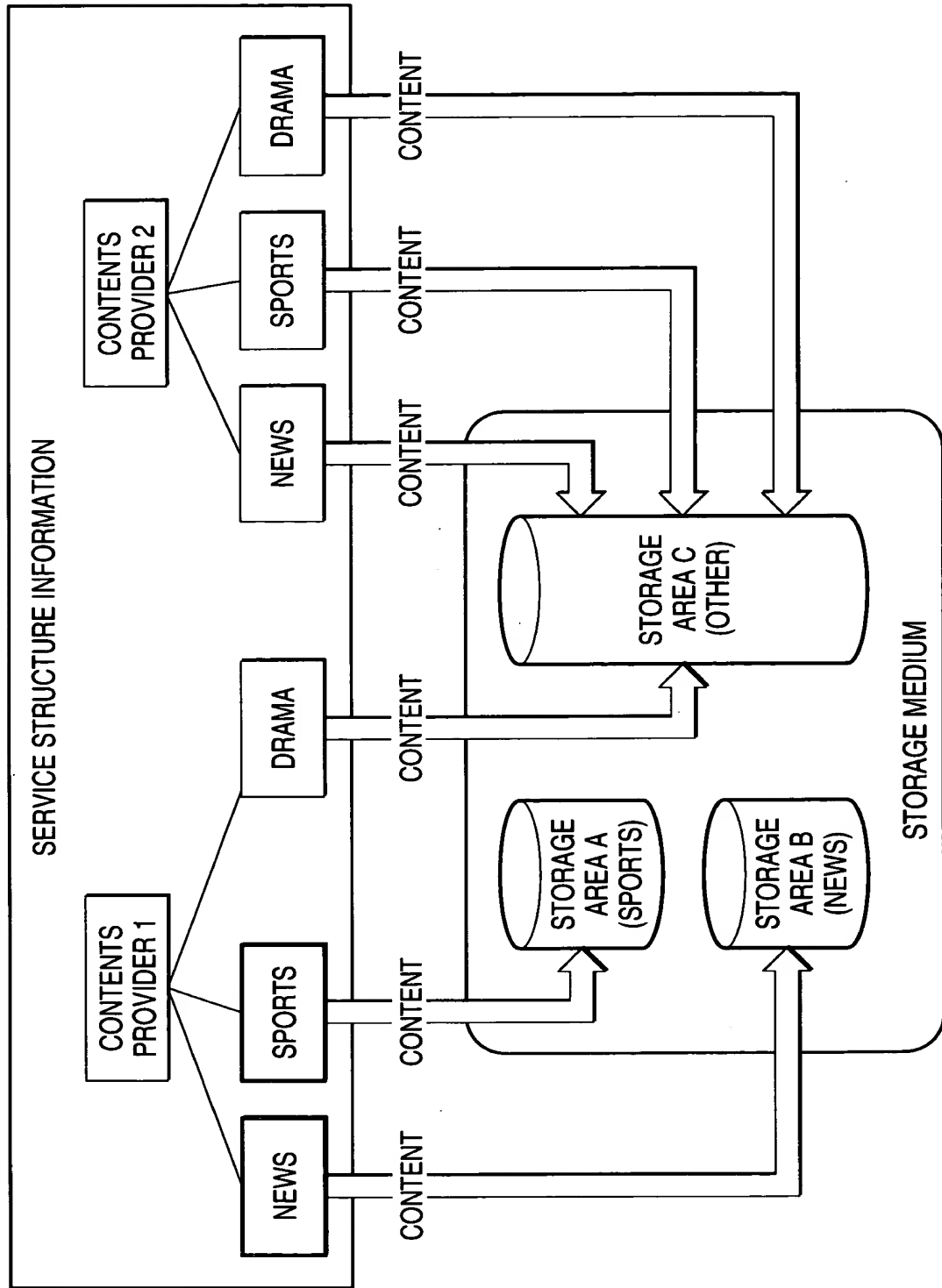


FIG. 29



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FIG. 30

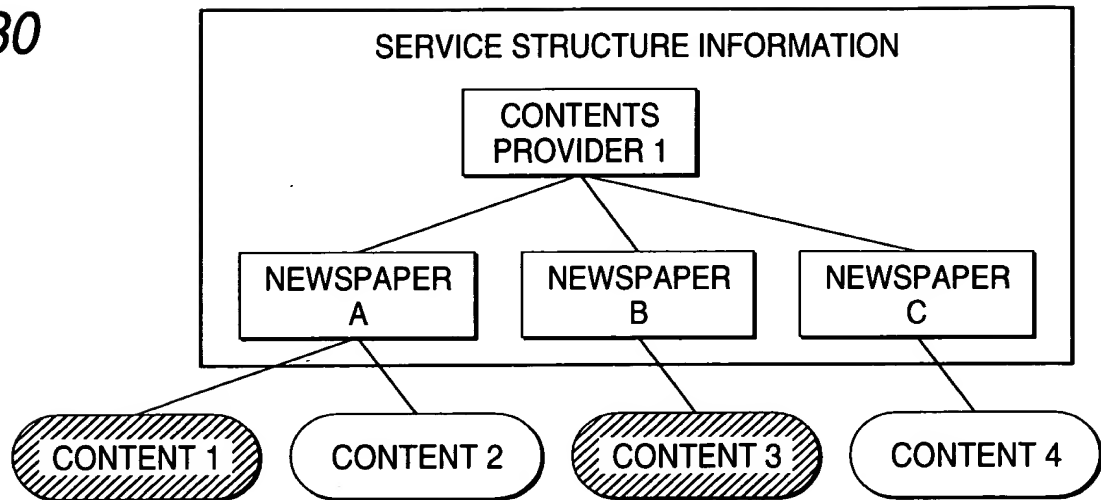


FIG. 31

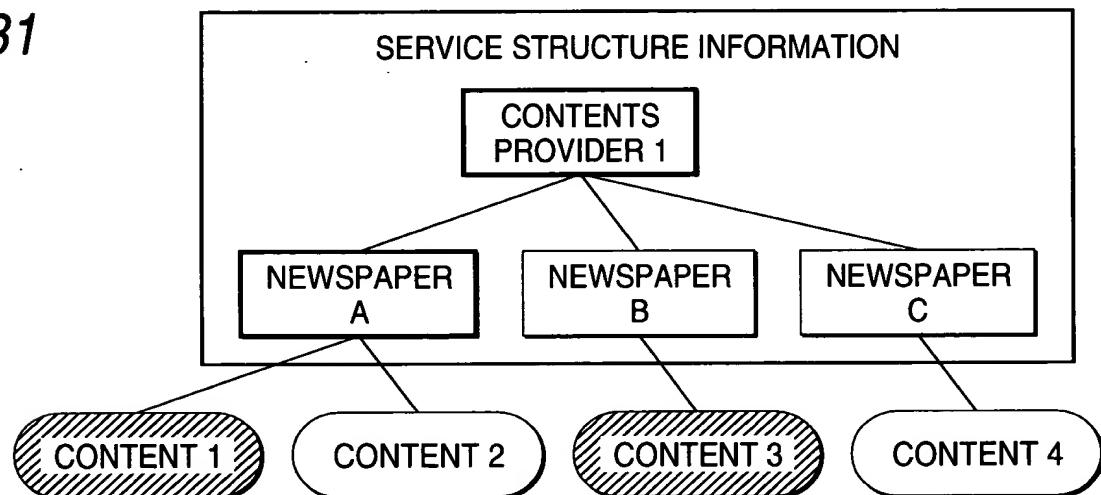


FIG. 32

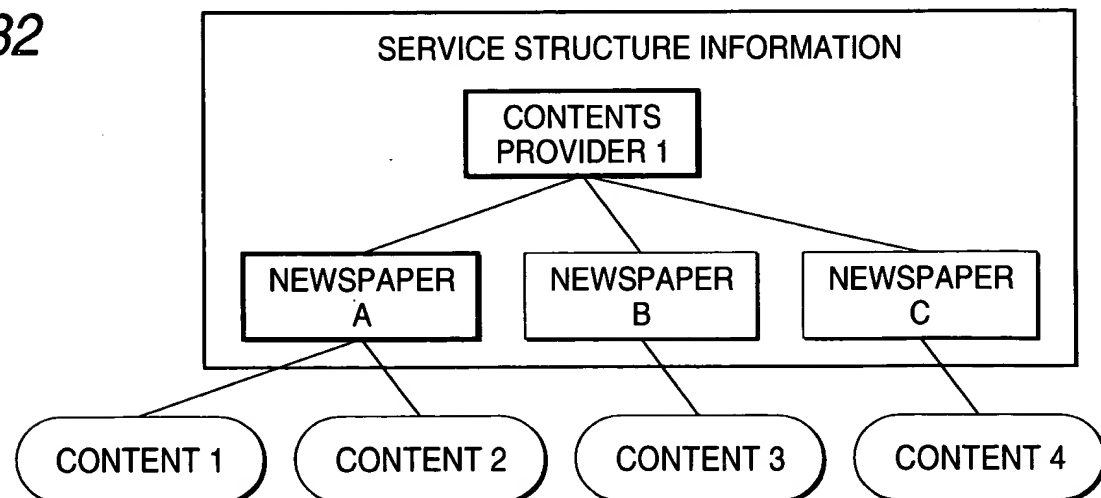


FIG. 33

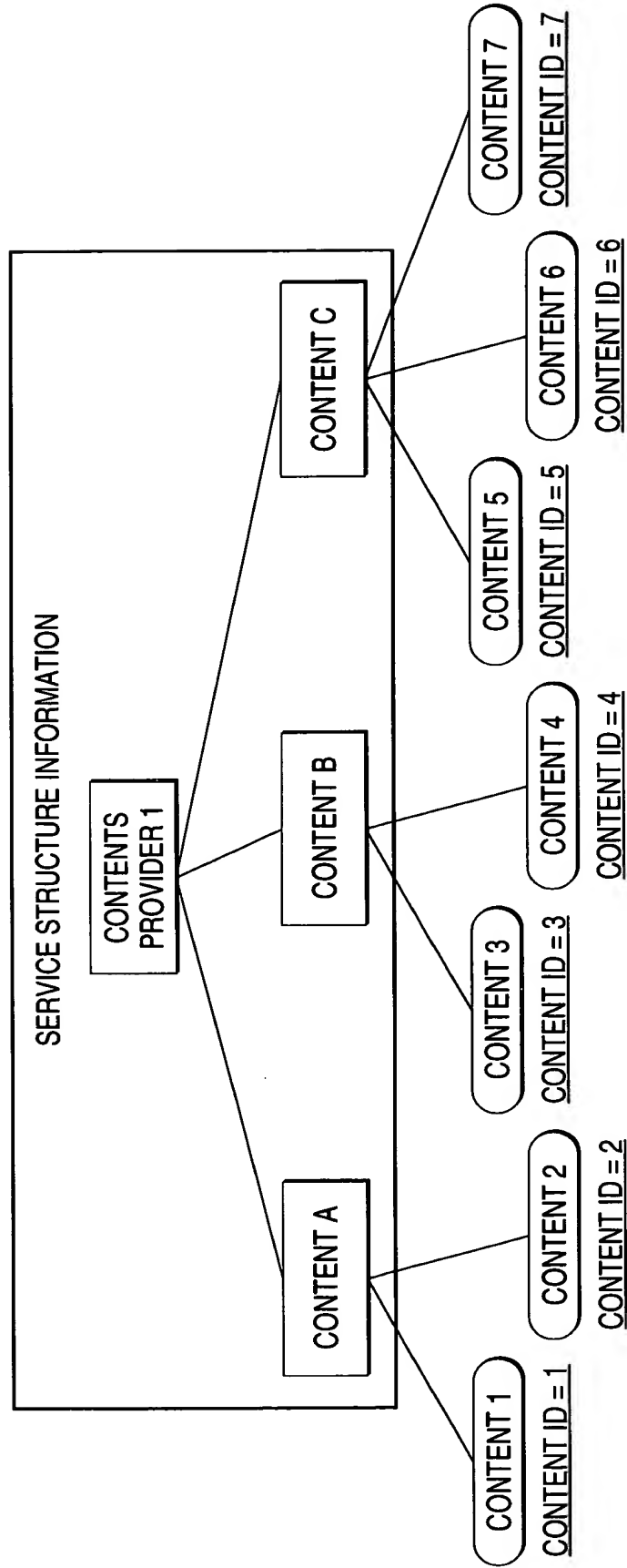


FIG. 34

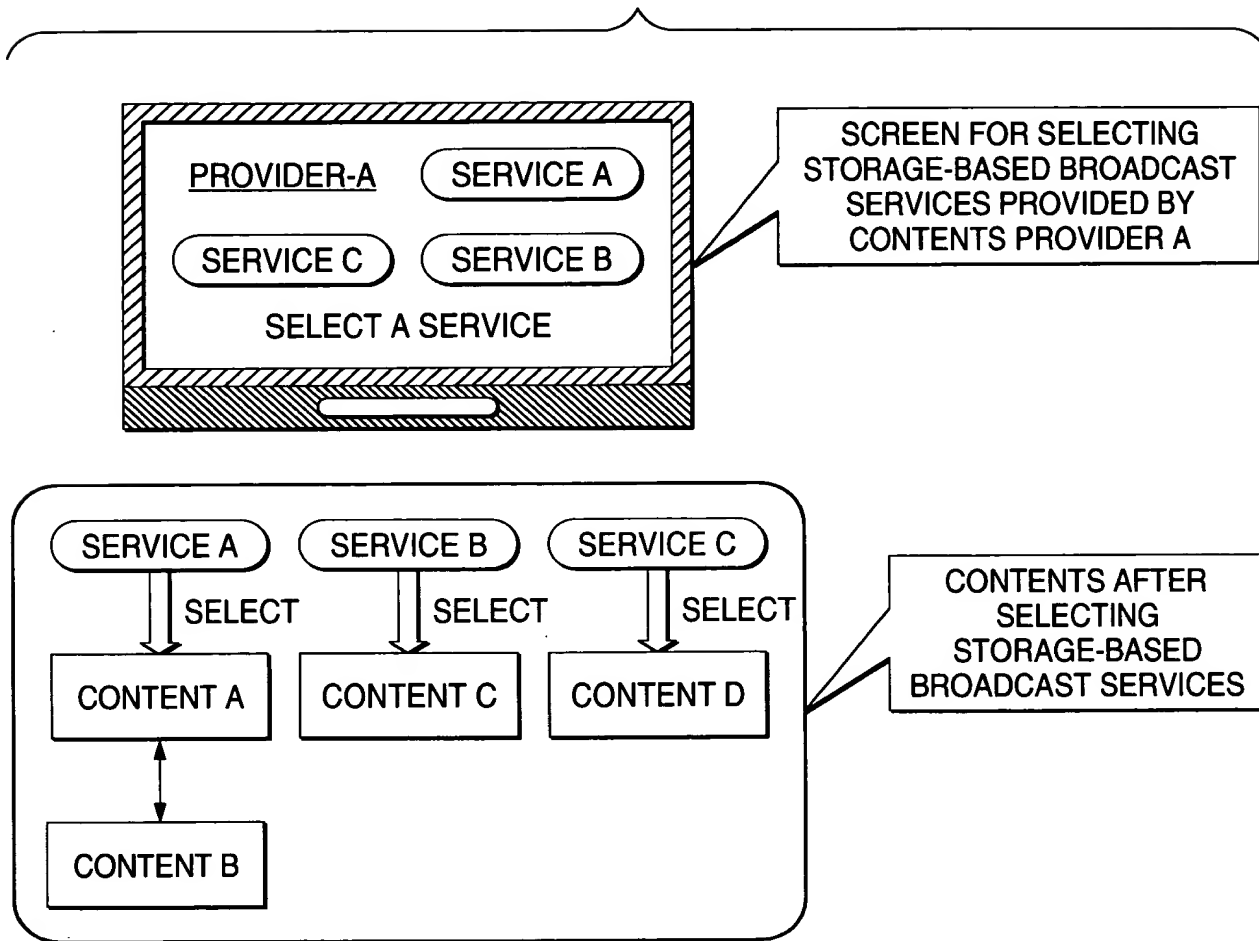


FIG. 35

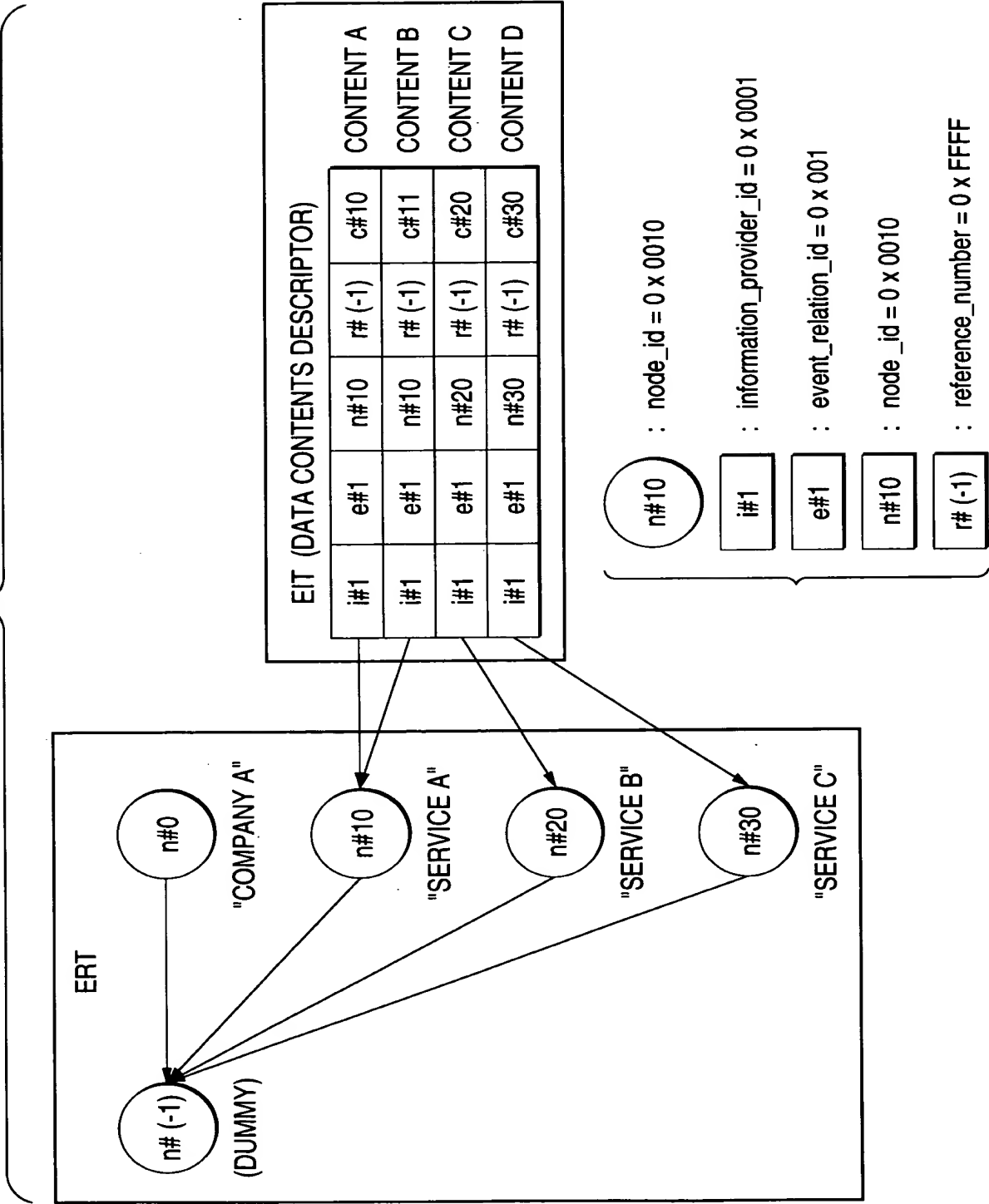


FIG. 36

FLAG	DEFINITION
INFORMATION PROVIDER IDENTIFIER OF COMPANY A (Information_provider_id)	0 x 0001
SERVICE PROVIDED A service (node_id)	0 x 0010
SERVICE PROVIDED B service (node_id)	0 x 0020
SERVICE PROVIDED C service (node_id)	0 x 0030
REFERENCE OF CONTENT A (information_provider_id)	0 x 0001
REFERENCE OF CONTENT A (event_relation_id)	0 x 0001
REFERENCE OF CONTENT A (node_id)	0 x 0010
REFERENCE OF CONTENT B (information_provider_id)	0 x 0001
REFERENCE OF CONTENT B (event_relation_id)	0 x 0001
REFERENCE OF CONTENT B (node_id)	0 x 0010
REFERENCE OF CONTENT C (information_provider_id)	0 x 0001
REFERENCE OF CONTENT C (event_relation_id)	0 x 0001
REFERENCE OF CONTENT C (node_id)	0 x 0020
REFERENCE OF CONTENT D (information_provider_id)	0 x 0001
REFERENCE OF CONTENT D (event_relation_id)	0 x 0001
REFERENCE OF CONTENT D (node_id)	0 x 0030

FIG. 37

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DATA STRUCTURE	DESCRIPTION
event_relation_section(){ table_id section_syntax_indicator reserved section_length event_relation_id reserved version_number current_next_indicator section_number last_section_number information_provider_id relation_type reserved_future_use node_id collection_mode reserved_future_use parent_node_id reference_number reserved_future_use descriptors_loop_length descriptor_tag descriptor_length ISO_639_language_code node_name_length node_name text_length text_char node_id collection_mode reserved_future_use parent_node_id reference_number reserved_future_use descriptors_loop_length descriptor_tag descriptor_length ISO_639_language_code node_name_length node_name text_length text_char node_id collection_mode reserved_future_use parent_node_id reference_number reserved_future_use descriptors_loop_length descriptor_tag descriptor_length ISO_639_language_code node_name_length node_name text_length text_char node_id collection_mode reserved_future_use parent_node_id reference_number reserved_future_use descriptors_loop_length descriptor_tag descriptor_length ISO_639_language_code node_name_length node_name text_length text_char CRC_32 }	0 x D1 (PROGRAM GROUP INDEX: ERT) 1 0 x 0001 (STORAGE-BASED BROADCAST SERVICE) 0 x 0001 (IDENTIFICATION VALUE ASSIGNED TO COMPANY A) 0 x 3 (SERVICE DESCRIPTION) 0 x 0000 0 x 0 (SET) 0 x FFFF (MULTI-ROUTE NODE) 0 x FFFF (INVALID) 0 x D3 (SHORT FORM NODE INFORMATION DESCRIPTOR) "jpn" "COMPANY A" ARBITRARY 0 x 0010 0 x 0 (SET) 0 x FFFF (MULTI-ROUTE NODE) 0 x FFFF (INVALID) 0 x D3 (SHORT FORM NODE INFORMATION DESCRIPTOR) "jpn" "SERVICE A" ARBITRARY 0 x 0020 0 x 0 (SET) 0 x FFFF (MULTI-ROUTE NODE) 0 x FFFF (INVALID) 0 x D3 (SHORT FORM NODE INFORMATION DESCRIPTOR) "jpn" "SERVICE B" ARBITRARY 0 x 0030 (SET) 0 x FFFF (MULTI-ROUTE NODE) 0 x FFFF (INVALID) 0 x D3 (SHORT FORM NODE INFORMATION DESCRIPTOR) "jpn" "SERVICE C" ARBITRARY

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FIG. 38

FLAG	DEFINITION
CONTENT A OF SERVICE A (content_id)	0 x 0010
CONTENT B OF SERVICE A (content_id)	0 x 0011
CONTENT C OF SERVICE B (content_id)	0 x 0020
CONTENT D OF SERVICE C (content_id)	0 x 0030

FIG. 39

DATA STRUCTURE	DESCRIPTION
reference_descriptor(){ descriptor_tag descriptor_length information_provider_id event_relation_id reference_node_id reference_number last_reference_number }	0 x D1 (REFERENCE DESCRIPTOR) TOTAL BYTE LENGTH OF ALL THE SUBSEQUENT DESCRIPTORS 0 x 0001 (IDENTIFICATION VALUE ASSIGNED TO COMPANY A) 0 x 0001 (STORAGE-BASED BROADCAST SERVICE) 0 x 0010 (SERVICE A) 0 x FF (NOT USED) 0 x FF (NOT USED)

FIG. 40

DATA STRUCTURE	DESCRIPTION
reference_descriptor(){ descriptor_tag descriptor_length information_provider_id event_relation_id reference_node_id reference_number_id last_reference_number }	0 x D1 (REFERENCE DESCRIPTOR) TOTAL BYTE LENGTH OF ALL THE SUBSEQUENT DESCRIPTORS 0 x 0001 (IDENTIFICATION VALUE ASSIGNED TO COMPANY A) 0 x 0001 (STORAGE-BASED BROADCAST SERVICE) 0 x 0020 (SERVICE B) 0 x FF (NOT USED) 0 x FF (NOT USED)

FIG. 41

DATA STRUCTURE	DESCRIPTION
reference_descriptor(){ descriptor_tag descriptor_length information_provider_id event_relation_id reference_node_id reference_number last_reference_number }	0 x D1 (REFERENCE DESCRIPTOR) TOTAL BYTE LENGTH OF ALL THE SUBSEQUENT DESCRIPTORS 0 x 0001 (IDENTIFICATION VALUE ASSIGNED TO COMPANY A) 0 x 0001 (STORAGE-BASED BROADCAST SERVICE) 0 x 0030 (SERVICE C) 0 x FF (NOT USED) 0 x FF (NOT USED)

FIG. 42

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DATA STRUCTURE	NUMBER OF BITS	BIT STRING NOTATION
arib_bxml_info(){		
transmission_format	2	bslbf
reserved_future_use	1	bslbf
auto_start_flag	1	bslbf
document_resolution	4	bslbf
use_xml	1	bslbf
default_version_flag	1	bslbf
independent_flag	1	bslbf
content_id_flag	1	bslbf
reserved_future_use	3	bslbf
update_flag	1	bslbf
ISO_639_language_code	24	bslbf
if (content_id_flag==1){		
content_id	32	uimbsf
content_version	16	uimbsf
}		
if (default_version_flag==0){		
bml_major_version	16	uimbsf
bml_minor_version	16	uimbsf
if (use_xml==1){		
bxml_major_version	16	uimbsf
bxml_minor_version	16	uimbsf
}		
if (transmission_format=='00'){		
num_of_carousels	8	uimbsf
for(i=0;i<N;i++){		
component_tag	8	uimbsf
event_section_flag	1	
reserved_future_use	3	
component_size_flag	1	
default_transaction_id_flag	1	
default_timeout_DII_flag	1	
default_leak_rate_flag	1	
if (component_size_flag=='1'){		
component_size	32	uimbsf
}		
if (default_transaction_id_flag)		
transaction_id	32	uimbsf
}		
if (default_timeout_DII_flag){		
timeout_value_DII	32	uimbsf
}		
if (default_leak_rate_flag){		
leak_rate	22	uimbsf
reserved	2	bslbf
}		
}		
ondemand_reserved_flag	1	bslbf
file_storable_flag	1	bslbf
content_provider_flag	1	bslbf
reserved_future_use	5	bslbf
if (file_storable_flag=0){		
auto_storage_flag	1	bslbf
content_storage_type	4	uimbsf
reserved_future_use	3	bslbf
}		
if (content_provider_flag=1){		
content_provider_descriptors_length	12	uimbsf
reserved_future_use	4	bslbf
for (i=0;i<2N;i++){		
descriptors()		
}		
}		
}		

FIG. 43

FLAG	DEFINITION
STORAGE-BASED BROADCAST SERVICE IDENTIFIER (ERT: event_relation_id)	0 x 0001
SERVICE DESCRIPTION (ERT: relation_type)	0 x 3

FIG. 44

DATA STRUCTURE	NUMBER OF BITS	BIT STRING NOTATION
event_information_section(){		
table_id	8	uimbsf
section_syntax_indicator	1	bslbf
reserved_future_use	1	bslbf
reserved	2	bslbf
section_length	12	uimbsf
service_id	16	uimbsf
reserved	2	bslbf
version_number	5	uimbsf
current_next_indicator	1	bslbf
section_number	8	uimbsf
last_section_number	8	uimbsf
transport_stream_id	16	uimbsf
original_network_id	16	uimbsf
segment_last_section_number	8	uimbsf
last_table_id	8	uimbsf
for(i=0;i<N;i++){		
event_id	16	uimbsf
start_time	40	bslbf
duration	24	uimbsf
running_status	3	uimbsf
free_CA_mode	1	bslbf
descriptors_loop_length	12	uimbsf
for(i=0;i<N;i++){		
descriptor()		
}		
}		
CRC_32	32	rpchof
}		

FIG. 45

DATA STRUCTURE	NUMBER OF BITS	BIT STRING NOTATION
data_content_descriptor(){		
descriptor_tag	8	uimsbf
descriptor_length	8	uimsbf
data_component_id	16	uimsbf
entry_component	8	uimsbf
selector_length	8	uimsbf
for(i=0;i<N;i++){		
selector_byte	8	uimsbf
}		
num_of_component_ref	8	uimsbf
for(i=0;i<num_of_component_ref;i++){		
component_ref	8	uimsbf
}		
ISO_639_language_code	24	bslbf
text_length	8	uimsbf
for(i=0;i<N;i++){		
text_char	8	uimsbf
}		
}		

FIG. 46

DATA STRUCTURE	NUMBER OF BITS	BIT STRING NOTATION
event_relation_section(){		
table_id	8	uimbsf
section_syntax_indicator	1	bslbf
reserved_future_use	1	bslbf
reserved	2	bslbf
section_length	12	uimbsf
event_relation_id	16	uimbsf
reserved	2	bslbf
version_number	5	uimbsf
current_next_indicator	1	bslbf
section_number	8	uimbsf
last_section_number	8	uimbsf
information_provider_id	16	uimbsf
relation_type	4	uimbsf
reserved_future_use	4	bslbf
for(i=0;i<N;i++){		
node_id	16	uimbsf
collection_mode	4	uimbsf
reserved_future_use	4	bslbf
parent_node_id	16	uimbsf
reference_number	8	uimbsf
reserved_future_use	4	bslbf
descriptors_loop_length	12	uimbsf
for(i=0;i<N;i++){		
descriptor()		
}		
}		
CRC_32	32	rpchof
}		

FIG. 47

DATA STRUCTURE	NUMBER OF BITS	BIT STRING NOTATION
reference_descriptor(){		
descriptor_tag	8	uimbsf
descriptor_length	8	uimbsf
information_provider_id	16	uimbsf
event_relation_id	16	uimbsf
for(i=0;i<N;i++){		
reference_node_id	16	uimbsf
reference_number	8	uimbsf
last_reference_number	8	uimbsf
}		
}		